

PERSONAL INFORMATION **MURESAN Liana Maria**


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Sex Female | Date of birth 03/05/1954 | Nationality Romanian

WORK EXPERIENCE

- | | |
|--------------|---|
| 2019-present | <p>Professor Emeritus
Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University Cluj-Napoca</p> |
| 2016-present | <p>Director of the Research Center in Electrochemistry and Non-conventional Materials

Department of Chemical Engineering, Babes-Bolyai University Cluj-Napoca</p> |
| 2005-present | <p>PhD coordinator (Chemistry doctoral School)
Research field: Physical Chemistry (Electrochemistry)</p> |
| 2002-2019 | <p>Full Professor

<i>Courses:</i> Electrochemistry, Electrochemical investigation methods, Advanced electrochemistry; Corrosion.
<i>Research activities</i>
"Babes-Bolyai" University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania</p> |
| 1997-2002 | <p>Associate Professor

<i>Courses:</i> Electrochemistry (in Romanian, English and German), Electrochemical investigation methods, Environmental chemistry
<i>Research activities</i>
"Babes-Bolyai" University, Dept. of Physical Chemistry Cluj-Napoca, Romania</p> |
| 1990-1997 | <p>Lecturer

<i>Courses:</i> Electrochemistry, Electrochemical Reactions in organic chemistry, Environmental chemistry, Kinetics and electrochemistry (biology-chemistry specialization)
<i>Research activities</i>
"Babes-Bolyai" University, Dept. of Physical Chemistry, Cluj-Napoca, Romania</p> |
| 1986-1990 | <p>Assistant professor
Practical works in the field of electrochemistry and of chemical kinetics</p> |
| 1981-1986 | <p>Scientific researcher
Research in the field of fuel cells and of metal electrodeposition / electrorefining
Institute of Chemical and Electrochemical Energetics, Cluj-Napoca</p> |

1977-1981

Chemist

Quality control of products

Heavy Equipment Enterprise, (CUG), Cluj-Napoca, Romania

EDUCATION AND TRAINING

1990 – 1992

PhD in Chemistry

Title of Thesis: Contributions to elucidation of mechanisms of levelling and brightening in metal electrodeposition

1973-1977

Bachelor in Chemistry

Faculty of Chemistry, «Babeş-Bolyai» University Cluj-Napoca

1973-1977

High School graduation degree

“George Bariţiu” High school Cluj-Napoca

STAYS ABROAD

1990-1991, 1996, 1999, 2005

-Université Pierre et Marie Curie, Paris, France

1993

-University Eotvos Lorand, Budapest, Hungary

1994

-Institute of Physical Chemistry of the Bulgarian Academy of Sciences Sofia, Bulgaria

1996

-Université Joseph Fourier, Ecole Nationale Supérieure d'Electrochimie et Electrometallurgie Grenoble, France

1999

-Université Libre de Bruxelles, Service de Métallurgie – Electrochimie, Bruxelles, Belgium

2017

- Università degli Studi di Cagliari, Italia, ERASMUS mobility

2018

- Università di Pisa, Italia, ERASMUS mobility

2019

-Universitat Polytechnica di Catalunya, Barcelona, Spain, ERASMUS mobility

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
French	C2	C2	C1	C1	C1
German	B1	B2	A2	A2	B2

 Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills

▪ good communication skills gained through my experience as teacher

Organisational / managerial skills

 ▪ Head of Physical Chemistry Department, Faculty of Chemistry and Chemical Engineering (2008-2012)
 ▪ - Director of Research Centre in Electrochemistry and Non-conventional Materials (2016-present)
 ▪ - Member of the Faculty Council (2008-2019) and of the Engineering Department Council (2012-2019)

Job-related skills

- Expertise in Applied Electrochemistry and general Physical Chemistry

Computer skills ▪ good command of Microsoft Office™ tools and of specific software

Other skills ▪ **Peer-review evaluator of national/international project proposals for:**

- CNCSIS, Serbian Ministry of Science (2010),
- INTAS (2003-2006),
- National Science Centre of Poland (2015),
- OTKA Hungary (2015),
- H2020 FETOPEN-2016-2017-RIA,
- AUF -Eugen Ionesco program (2014-2024)

Reviewer for scientific journals:

-J. Appl. Electrochem, Surf. Coat. Technol., Corrosion Sci., Electrochim. Acta, Mat. Chem Phys, etc.

Guest editor:

- Biosensors (ISSN 2079-6374, Electrochemical biosensors 2021)

Member of editorial board of international journals

- Journal of Electrochemical Science and Engineering ISSN: 1847-9286

Affiliations / memberships ▪ International Society of Electrochemistry (ISE) –Regional representative (2008-2014)
▪ Romanian Society of Chemistry
▪ Romanian Society of Electrochemistry

Driving licence ▪ B category

ADDITIONAL Information

Honours and awards ▪ PROINVENT diploma of excellency, National salon of inventions, Inventica 2014, Cluj-Napoca
▪ Excellency diploma for the activity in the field of corrosion and anticorrosion protection, Technical University Cluj-Napoca, 2010
▪ Excellency diploma for scientific activity with international impact-UBB 2021
▪ Excellency diploma for scientific activity with international impact-UBB 2022

Publications
 (last 2 years selection)

1. Julieta Daniela Chelaru, Liana Maria Mureşan, Lucian Barbu, Tibor Kolozsi, Simona Cîntă Pînzaru, Tudor Tamas, Characterization of the corrosion products formed on Michael the Brave's equestrian statue in urban atmosphere, *Mater. Today Comm*, **2022**, 31, 103565.
2. Julia Both, Gabriella Szabo, Gabriel Katona, Liana Maria Muresan, Tannic acid reinforced sol-gel silica coatings for corrosion protection of zinc substrates, *Materials Chemistry and Physics*, **2022**, 282, 125912.
3. Júlia Both, Róbert Mezei, Gabriella Szabó, Liana Maria Mureşan, Electrochemical investigation of the corrosion inhibiting effect of organic paints doped with benzotriazole coated on steel substrates, *Prot. Metals & Phys. Chem. Surf.*, **2022**, DOI: 10.1134/S2070205122040086
4. Á. F. Szőke, G. Szabó, G. Katona, G. Bliet, L. M. Muresan, Correlations between the chitosan solution viscosity and the anticorrosive protection efficiency of indigo carmine-impregnated chitosan coatings on zinc, *Prot. Metals & Phys. Chem. Surf.*, **2022**, 58(3) 574-584. DOI: 10.1134/S2070205122030224.
5. Julia Both, Gabriella Szabó, Gabriel Katona, Liana Maria Muresan, Anticorrosive polystyrene coatings modified with tannic acid on zinc and steel substrates *J. Electrochem. Sci. Eng.* 12(4) (**2022**) 721-730.
6. Tamara-Rita Ovari, Gabriel Katona, Maria Coros, Gabriella Szabó and Liana Maria Muresan, Corrosion behaviour of zinc coated with composite silica layers incorporating poly(amidoamine) - modified graphene oxide, *J. Solid State Electrochemistry*, **2022**, 7, 1795-1811.
7. Tamara-Rita Ovari, Árpád Ferenc Szoke, Gabriel Katona, Gabriella Stefánia Szabó and Liana Maria Muresan, Temporary Anti-Corrosive Double Layer on Zinc Substrate Based on Chitosan Hydrogel and Epoxy Resin, *Gels* **2023**, 9, 361.
8. Tamara-Rita Ovari, Timea Toth, Gabriel Katona, Gabriella Stefania Szabó, Liana Maria Muresan, Epoxy Coatings Doped with (3-Aminopropyl)-triethoxysilane-Modified Silica Nanoparticles for Anti-Corrosion Protection of Zinc, *Coatings* **2023**, 13, 1844. <https://doi.org/10.3390/coatings13111844>
9. Buier, R.; Szabó, G.S.; Katona, G.; Muntean, N.; Muresan, L.M. Influence of pH on the Inhibiting Characteristics of Cresol Red Incorporated in Chitosan Coatings on Zinc. *Metals* **2023**, 13,1958. <https://doi.org/10.3390/met13121958>
10. Liana Maria Muresan, Nanocomposite Coatings for Anti-Corrosion Properties of Metallic Substrates. *Materials* **2023**, 16, 5092.

 Grants and Projects
 (coordinator)

- Electrowinning of some heavy metals from solid industrial waste and wastewaters, Contract CNCSU 1998-1999, **Project manager**
- Use of electrochemical impedance spectroscopy for investigation of metal/solution interface, **Project manager** , grant CNCSIS-A-2001-2003
- Hybrid nanocomposite matrices with electrocatalytic properties, **Project manager**, contract CNCSIS-A-51/349-2004-2006
- Etude des inhibiteurs organiques non-nocifs à la protection de la patine des bronzes archéologiques, programme ECONET, dossier 10279NA-2005-2006, **contract internațional** (cooperation Romania-France -Croatia) – **coordinator for Romania**
- Composite corrosion resistant coatings obtained by copper electrodeposition with nanoparticles **Project manager** , contract CNCSIS-A, **2007-2008**
- Obtaining technology of nanocomposite coatings by co-deposition of metals with nanosized particles, NANOTECH, Proiect INOVARE nr. 1145, contract nr. 97/28.09.2007 (director Caius Bulea, **responsible UBB Liana Muresan**), 2007-2009
- Innovative technology for the obtaining of corrosion resistant coatings by co-deposition of Zn-Ni with nanometric particles, Proiect INOVARE nr. 1579, 2008, ZINITECH (director Caius Bulea, S.C. BETAK S.A. Bistrita, **responsible UBB Liana Muresan**), 2008-2010
- Protective sol-gel layers on metallic surfaces: Preparation and characterization, Bilateral project Ro-HU 664/2013 (**RO Project manager**), 2013-2014