Curriculum Vitae



Personal information

Surname(s) / First name(s)

MURESAN Liana Maria

Address(es)

11 Arany Janos Str., 400028 Cluj-Napoca, ROMANIA

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+ 40 264 590818

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limur@chem.ubbcluj.ro

Nationality

Romanian

Date of birth

3rd May 1954

Academic training and positions

Dates 1990 – 1992

Title of qualification awarded

PhD in Chemistry

Name and type of organisation providing education and training

«Babeş-Bolyai» University Cluj-Napoca

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1973 - 1977

Title of qualification awarded

Bachelor in Chemistry

Name and type of organisation providing education and training

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

Dates

1969 - 1973

Title of qualification awarded

High school graduation degree

Name and type of organisation providing education and training

" George Bariţiu" Highschool Cluj-Napoca

Work experience Teaching/research/industry

Dates

2016-present

Occupation or position held

Director of the Research Center in Electrochemistry and Non-conventional Materials

Dates

2005-present

Occupation or position held

PhD coordinator

Dates

2002-present

Occupation or position held

Full Professor

Main activities and responsibilities

Courses: Electrochemistry, Electrochemical investigation methods, Advanced

electrochemistry; Corrosion.

Research activities

Name and address of employer

"Babes-Bolyai" University, Dept. of Physical Chemistry, Cluj-Napoca, Romania

Type of business or sector

Education/Teaching

Dates

es | 1997-2000

Occupation or position held

Associate Professor

Main activities and responsibilities

Courses: Electrochemistry (in Romanian, English and German), Electrochemical investigation

methods, Environmental chemistry

Research activities

Name and address of employer	"Babes-Bolyai" University, Dept. of Physical Chemistry, Cluj-Napoca, Romania
Type of business or sector	Education
Dates	1990-1997
Occupation or position held	Lecturer
Main activities and responsibilities	Courses: Electrochemistry, Electrochemical Reactions in organic chemistry, Environmental chemistry, Kinetics and electrochemistry (biology-chemistry specialization) Research activities
Name and address of employer	"Babes-Bolyai" University, Dept. of Physical Chemistry, Cluj-Napoca, Romania
Type of business or sector	Education
Dates	1986-1990
Occupation or position held	Assistant
Main activities and responsibilities	Practical works in the field of electrochemistry and of chemical kinetics
Name and address of employer	"Babes-Bolyai" University, Dept. of Physical Chemistry, Cluj-Napoca, Romania
Type of business or sector	Education
Dates	1981-1986
Occupation or position held	Scientific Researcher
Main activities and responsibilities	Research in the field of fuel cells and of metal electrodeposition / electrorefining
Name and address of employer	Institute of Chemical and Electrochemical Energetics, Cluj-Napoca
Type of business or sector	Research
Dates	1977 -1981
Occupation or position held	Chemist
Main activities and responsibilities	Quality control of products
Name and address of employer	Heavy Equipment Enterprise, Cluj-Napoca, Romania
Type of business or sector	Industry
Research interests	Electrochemistry, Modified electrodes, Electrodeposition of metals and composites; Corrosion
Awards	Excellency diploma PROINVENT, International Exhibition "Inventica" 2014, Cluj-Napoca Excellency diploma for important contribution in the field of corrosion and corrosion protection awarded by Technical University Cluj-Napoca
Personal skills and competences Mother tongue(s)	Romanian
Other language(s)	French, English, German
Self-assessment	Understanding Speaking Writing
	Listening Reading Spoken Spoken interaction production
French	F excellent F excellent F very well F very well F well
English	E very well E very well E well E well E well
German	G well G well G satisfactory G well

Research stays abroad	-Université Pierre et Marie Curie, Paris, France (1990-1991, 1996, 1999 and 2005), -University Eotvos Lorand, Budapest, Hungary (1993), -Institute of Physical Chemistry of the Bulgarian Academy of Sciences Sofia, Bulgaria (1994), Université Joseph Fourier, Ecole Nationale Supérieure d'Electrochimie et Electrométalurgie Grenoble, France (1996), -Université Libre de Bruxelles, Service de Métallurgie — Electrochimie, Bruxelles, Belgium (1999) Universita degli Studi di Cagliari, Italia, ERASMUS mobility, 2017 - Universita di Pisa, Italia, ERASMUS mobility, 2018
Managerial skills	 Head of Physical Chemistry Department, Faculty of Chemistry and Chemical Engineering(2008-2012) Director of Research Center in Electrochemistry and Non-conventional Materials (2016-present) Member of the Faculty Council (2008-present) and of the Engineering Department Council (2012-present)
Affiliations	International Society of Electrochemistry (ISE) –Regional representative (2008-2014) Romanian Society of Chemistry Romanian Society of Electrochemistry
Reviewer	Journal of Applied Electrochemistry Sensors&Actuators J. Solid State Electrochem Mat. Chem. Phys. Electrochimica Acta Corrosion Science etc.
Peer review activity - international projects	1. Evaluation of Serbian projects proposals financed by the Serbian Ministry of Education and Science 2010 2. INTAS projects evaluator 2003-2006 3. Evaluation of proposals in open calls of the National Science Centre Poland 2015 4. Evaluation of OTKA project proposals, Hungary 2015 5. Remote evaluator for H2020-FETOPEN-2016-2017-RIA 6. Evaluation des candidatures dans le cadre d'appels à candidatures 2014-2015, 2015-2016, 2016-2017 et 2017-2018 pour le programme des bourses Eugene Ionesco mis en place par le Gouvernement de la Roumanie et coordonnée par l'Agence universitaire de la Francophonie
Member of Editorial board	Journal of Electrochemical Science and Engineering ISSN: 1847-9286
Computer skills and competences	Microsoft Office, Origin, Internet

Relevant publications (last 5 years)

- 1. Patrick Ioan Nemes, Maria Lekka, Lorenzo Fedrizzi, **Liana Maria Muresan**, **2014**, Influence of the electrodeposition current regime on the corrosion resistance of Zn–CeO₂ nanocomposite coatings, *Surface & Coat. Technol.* 252, 102-107.
- 2. Ileana Rotaru, Simona Varvara, Luiza Gaina, **Liana Maria Muresan**, **2014**, Antibacterial drugs as corrosion inhibitors for bronze surfaces in acidic solutions, *Applied Surface Science*, 32, 188–196
- 3. **L.M. Muresan**, **2014**, Corrosion Protective Coatings for Ti and Ti Alloys Used for Biomedical Implants in "Intelligent Coatings for Corrosion Control", Elsevier, ISBN 978-0-12-411467-8, Chapter 17, 585-603.
- 4. Emőke Albert, Nicoleta Cotolan, Norbert Nagy, György Sáfrán, Gabriella Szabó, **Liana-Maria Mureşan**, Zoltán Hórvölgyi, **2015**, Mesoporous silica coatings with improved corrosion protection properties, *Microporous & Mesoporous Materials*, 206, 102-113.
- 5. A. R. Deac, C. Morar, G. Turdean, M. Darabantu, E. Gál, A. Bende, **Liana Maria Muresan**, **2016**, Glassy carbon electrode modified with hemin and new melamine compounds for H₂O₂ amperometric detection, *J. Solid State Electrochem.*, 20, 3071-3081.
- Roxana Bostan, Simona Varvara, Luiza Găină, Traian Petrisor jr., Liana Maria Mureşan, 2017, Investigation of the protective effect of inhibitor-containing nitrocellulose lacquer on artificial bronze patinas, *Prog. Org. Coat*, 111 (2017) 416–427
- 7. Ana Maria Sacara, Castelia Cristea, **Liana Maria Muresan**, **2017**, Electrochemical detection of Malachite Green using glassy carbon electrodes modified with CeO₂ nanoparticles and Nafion, *J. Electroanal. Chem.*, 792 23–30
- 8. Ana Maria Sacara, Valentina Nairi, Andrea Salis, Graziella Liana Turdean, and **Liana Maria Muresan**, **2017**, Silica-modified Electrodes for Electrochemical Detection of Malachite Green, *Electroanalysis*, 29, 2602-2609
- 9. Aglaia Raluca Deac, **Liana Maria Muresan**, Liviu Cosmin Cotet, Lucian Baia, Graziella Liana Turdean, **2017**, Hybrid composite material based on graphene and polyhemin for electrochemical detection of hydrogen peroxide, *J. Electroanal. Chem.*, 802, 40–47
- Nicoleta Cotolan, Liviu Cosmin Cotet, Daniel Marconi, Liana Maria Muresan, 2018, Influence of graphene oxides produced by different processing techniques on the corrosion resistance of electrodeposited Zn-graphene composite coatings, Rev. Roum. Chim., 64(1) 55-63
- Ana-Maria Sacara, Federica Pitzalis, Andrea Salis, Graziella Liana Turdean, Liana Maria Muresan, Glassy carbon electrodes modified with ordered mesoporous silica for cadmium ions electrochemical detection, 2019, ACS Omega, 4, 1, 1410-1415.
- 12. Ana-Maria Săcară, Cerasella Liliana Indolean, Vasile Mircea Cristea, **Liana Maria Mureşan**, **2019**, Application of adaptive neuro-fuzzy interference system on biosorption of malachite green using fir (*Abies nordmanniana*) cones biomass, *Chem. Eng. Commun.*, DOI: 10.1080/00986445.2018.1555531

Grants and research projects

- Electrolytic recovery of some heavy metals from solid industrial wastes and waste waters, -CNCSU 215/1998-1999, Project manager
- 2. Application of electrochemical impedance spectroscopy in metal / electrolyte interface investigation, **Project manager**, CNCSIS /2001-2003
- 3. Nanocomposite hybrid matrices with electrocatalytic properties, **Project manager**, contract CNCSIS-A-34/349-**2004-2006**
- Etude des inhibiteurs organiques non-nocifs à la protection de la patine des bronzes archéologiques, programme ECONET, dossier 10279NA-2005-2006, international project (cooperation Romania- France -Croatia) –romanian coordinator
- Technology for the obtaining of zinc composite coatings with anticorrosion properties by electro-codeposition of metals with nanoparticles, Project INOVARE nr. 97/28.09.2007, NANOTECH (UBB project coordinator), 2007-2009
- 6. Corrosion resistant composite coatings obtained by electrolytic codeposition of copper with nanoparticles, **project manager**, CNCSIS-A, **2007-08**
- Innovative technology for the obtaining of Zn-Ni coatings with anticorrosion properties by composites-electrodeposition with nanometric particles, Project INOVARE nr. 1579, 2008, ZINITECH (director Caius Bulea, S.C. BETAK S.A. Bistrita, project coordinator UBB Liana Muresan), 2008-2010
- 8. Protective sol-gel layers on metallic surfaces: Preparation and characterization, (SOLGELCOR) Bilateral project Ro-HU (RO project coordinator), 2013-2014