

PERSONAL INFORMATION

Nicoleta Cotolan

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Sex F | Date of birth 30/05/1988 | Nationality Romanian

WORK EXPERIENCE

- 2018 - present University assistant at Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania
Corrosion and corrosion protection
Electrochemistry
- 2015 – 2019 Research assistant within the project PN II RU TE 2014-4-1194
PN-III-P1-1.1-TE-2016-1588
PN-III-P1-1.2-PCCDI-2017-0652 Cluj-Napoca (Romania)

EDUCATION AND TRAINING

- 2012 - 2015 **Ph. D. in Chemistry**
Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania
 - Thesis title- Smart Corrosion Resistant Coatings
 - Research scholarship (2 months in 2013 and 2014) within the framework of the HungarianRomanian Bilateral Cooperation Programme SOLGELCOR 664/2013, Tét_12_RO-1-2013-0011
 - ERASMUS scholarship (01.04.2014-30.06.2014) and Research scholarship (02.2015) - PhD scholarship within the framework of the project no. POSDRU/159/1.5/S/137750 Department of Physical and Organic Chemistry, Jožef Stefan Institute Jamova 39, 1000 Ljubljana (Slovenia)
- 2010-2012 **Master in Advanced Chemistry**
Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania
 - dissertation in electrolytic co-deposition of zinc with CeO₂ · ZrO₂ nanoparticles
- 2007-2010 **B. Sc. in Chemistry**
Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania
 - dissertation in spectrophotometric determination of synthetic sweeteners
- 2003-2007 **Baccalaureate**
National College Spiru Haret, Târgu-Jiu, Romania
 - Chemistry-Biology section

Mother tongue Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Spanish	B2	B2	B2	B2	B2

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

Driving licence ▪ B

PERSONAL SKILLS

ADDITIONAL INFORMATION

Publications

1. N. Cotolan, G.L. Turdean, J.D. Chelaru: Improving the corrosion resistance of mild steel by zinc-graphene oxide coatings, *Studia Universitatis Babeş-Bolyai, Chemia* 65 (2020) 23-32; DOI: 10.24193/subbchem.2020.3.02
2. N. Cotolan, L.-M. Mureşan, A. Salis, L. Barbu-Tudoran, G. L. Turdean: Electrochemical detection of lead ions with ordered mesoporous silica-modified glassy carbon electrodes, *Water, Air, & Soil Pollution* 231 (2020) 1-8; DOI: 10.1007/s11270-020-04599-7
3. N. Cotolan, L. C. Cotet, D. Marconi, L.-M. Mureşan: Influence of graphene oxides produced by different processing techniques on the corrosion resistance of electrodeposited Zn-graphene composite coatings, *Revue Roumaine de Chimie* 64 (2019) 55-63; DOI: 10.33224/rch.2019.64.1.05
4. S.-A. Domeanu, A. Avram, H. Mărincaş, N. Cotolan, T. Frenţiu, P. Ilea: Influence of the composition evolution of waste computer motherboards on their recycling strategy, *Studia Universitatis Babeş-Bolyai, Chemia* 63 (2018) 147-158; DOI: 10.24193/subbchem.2018.4.12
5. N. Cotolan, M. Rak, M. Bele, A. Cör, L.-M. Mureşan, I. Milošev: Synthesis of Ag-TiO coatings on titanium substrate by sol-gel method and their characterization, *Surface & Coatings Technology* 307 (2016) 790-799; DOI: 10.1016/j.surfcoat.2016.09.082
6. N. Cotolan, S. Varvara, E. Albert, G. Szabó, Z. Hórvölgyi, L.-M. Mureşan: Evaluation of corrosion inhibition performance of silica sol-gel layers deposited on galvanized steel, *Corrosion Engineering Science and Technology* 51 (2016) 373-382; DOI: 10.1080/1478422X.2015.1120404
7. N. Cotolan, A. Pop, D. Marconi, O. Ponta, L.-M. Mureşan: Corrosion Behavior of Titanium Dioxide-coated Ti-6Al-7Nb Surfaces Obtained by Anodic Oxidation in Sulfuric or Acetic Acid, *Materials and Corrosion* 66 (2015) 635-642; DOI: 10.1002/maco.201407687
8. E. Albert, N. Cotolan, N. Nagy, G. Sáfrán, G. Szabó, L.-M. Mureşan, Z. Hórvölgyi: Mesoporous silica coatings with improved corrosion protection properties, *Microporous and Mesoporous Materials* 206 (2015) 102-113; DOI: 10.1016/j.micromeso.2014.12.021
9. P. Nemeş, N. Cotolan, L.-M. Mureşan: Corrosion Behaviour of Composite Coatings Obtained by Electrolytic Co-deposition of Zinc with Nanoparticles of CeO₂-ZrO₂ Binary Oxides, *Studia Universitatis Babeş-Bolyai, Chemia* 58(1), 81-93 (2013) ISSN 12247154

Conferences

1. ElecNano 23-24 November 2020, France, Paris. A. Belcovici, N. Cotolan, G. L. Turdean: Determination of noradrenaline using a conductive polymer based on modified electrode (oral presentation).
2. 71 Annual Meeting of the International Society of Electrochemistry 30 August-4 September 2020 Belgrade, Serbia. N. Cotolan, L.-M. Mureşan, G.L. Turdean, D. Bogdan, A. Salis: Chemically modified electrodes based on methylene blue and SBA-15 composites (poster).
3. 7 International Conference on Materials and Applications for Sensors and Transducers 24-27 September 2018, Bratislava, Slovakia. N. Cotolan, L.-M. Muresan, G.L. Turdean, A. Salis: Glassy carbon electrodes modified with ordered mesoporous silica for lead detection (poster).
4. International conference 'Students for Students', XVth edition, 18-22 April 2018, Cluj-Napoca, Romania. A.F. Moldovan, N. Cotolan, L.-M. Muresan, L.C. Cotet: Corrosion resistant Zn-reduced graphene oxide coatings (poster).
5. 9 International Conference on Advanced Materials ROCAM 11-14 July 2017, Bucharest, Romania. N. Cotolan, M. Rusu, V. Vulpoi, G.L. Turdean, V. Danciu, C.I. Forţ, L. Baia, L.C. Cotet: New electrode material for detection of H₂O based on Fe and Bi doped carbon xerogel nanocomposite (poster).
6. International U.A.B. - B.EN.A Conference, Environmental Engineering and Sustainable Development, 25-27 May, 2017, Alba-Iulia, Romania. N. Cotolan, L.C. Cotet, L.M. Muresan: Corrosion behavior of Zn-GO and Zn-rGO coatings electrodeposited on steel (poster).
7. Graphene Week, 13-17 June, 2016, Varsovia, Polonia, M. Rusu, N. Cotolan, A. Lazar, C.I. Fort, L. Baia, L.C. Cotet, In situ preparation of "graphene / porous carbon / Bi-Fe nanoparticles" heterostructures for analytical applications (poster).
8. Global Nanotechnology Congress and Expo, 19-24 April, 2016, Dubai, UAE, L. C. Cotet, M. Rusu, R.A. Deac, N. Cotolan, A. Lazar, C. I. Fort, L. Baia, Preparation of Bi impregnated carbon xerogels and aerogels for heavy metal amperometric sensor construction (poster).
9. 5 Regional Symposium on Electrochemistry South-East Europe (RSE-SEE), 7-11 June, 2015, Pravets, Bulgaria, N. Cotolan, L.M. Mureşan, M. Bele, I. Milošev, Synthesis of Ag-TiO coatings on titanium substrate by sol-gel method and their characterization (oral presentation). Awarded for The Best Young Oral Scientist Presentation (RSE-SEE 2015).
10. 5 Conference on Advanced Spectroscopies on Biomedical and Nanostructured Systems, September 7-10, 2014, Cluj-Napoca, Romania, N. Cotolan, A. Pop, D. Marconi, O. Ponta, L.M. Mureşan, TiO₂-coated Ti-6Al-7Nb surfaces obtained by anodic oxidation - study of the corrosion behavior (poster).
11. 4 Regional Symposium on Electrochemistry South-East Europe (RSE-SEE), 26-30 May, 2013, Ljubljana, Slovenia. N. Cotolan, L.-M. Mureşan: Corrosion studies of Ag-TiO₂-coated Ti-6Al-7Nb surfaces in simulated physiological solution (poster).

Web of Science ResearcherID: <https://publons.com/researcher/4467777/nicoleta-cotolan/>

ResearchGate: <https://www.researchgate.net/profile/Nicoleta-Cotolan>

Google Scholar: <https://scholar.google.com/citations?user=pqL9HTMAAAA&hl=en>