

Lista lucrări științifice:

1. P. Nemeș, **N. Cotolan**, L.-M. Mureșan: Corrosion Behaviour of Composite Coatings Obtained by Electrolytic Co-deposition of Zinc with Nanoparticles of CeO₂·ZrO₂ Binary Oxides, *Studia Universitatis Babeș-Bolyai, Chemia* 58(1), 81-93 (2013) ISSN 12247154
2. E. Albert, **N. Cotolan**, N. Nagy, G.Sáfrán, G. Szabó, L.M. Mureșan, Z. Hórvölgyi: Mesoporous silica coatings with improved corrosion protection properties *Microporous and Mesoporous Materials* 206, 102-113 (2015). DOI: 10.1016/j.micromeso.2014.12.021
3. **N. Cotolan**, A. Pop, D. Marconi, O. Ponta, L.M. Mureșan: Corrosion Behavior of Titanium Dioxide-coated Ti-6Al-7Nb Surfaces Obtained by Anodic Oxidation in Sulfuric or Acetic Acid *Materials and Corrosion* 66, 635-642 (2015). DOI: 10.1002/maco.201407687
4. **N. Cotolan**, S. Varvara, E. Albert, G. Szabó, Z. Hórvölgyi, L.M. Mureșan: Evaluation of corrosion inhibition performance of silica sol-gel layers deposited on galvanized steel *Corrosion Engineering Science and Technology* 51, 373-382 (2016). DOI: 10.1080/1478422X.2015.1120404.
5. **N. Cotolan**, M. Rak, M. Bele, A. Cör, L.M. Mureșan, I. Milošev: Synthesis of Ag-TiO₂ coatings on titanium substrate by sol-gel method and their characterization *Surface & Coatings Technology* 307, 790-799 (2016). DOI: 10.1016/j.surfcoat.2016.09.082
6. **N. Cotolan**, L.C. Coteț, D. Marconi, L.M. Mureșan: Influence of graphene oxides produced by different processing techniques on the corrosion resistance of electrodeposited Zn-graphene composite coatings *Revue Roumaine de Chimie* 64, 55-63 (2019). DOI: 10.33224/rrch.2019.64.1.05
7. **N. Cotolan**, L.-M. Mureșan, 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, 1-8 (2020). DOI: 10.1007/s11270-020-04599-7
8. **N. Cotolan**, G.L. Turdean, J.D. Chelaru: Improving the corrosion resistance of mild steel by zinc-graphene oxide coatings, *Studia Universitatis Babeș-Bolyai, Chemia* 65, 23-32 (2020); DOI: 10.24193/subbchem.2020.3.02
9. J.H. Viteri, **N. Cotolan**, L. Barbu-Tudoran, G.L. Turdean: A paracetamol - poly(3,4-ethylenedioxythiophene) composite film for drug release studies *Materials Today Communications* 34 (2022). DOI: 10.1016/j.mtcomm.2022.105084
10. J.H. Viteri, **N. Cotolan**, A. Lupan, A.M.V. Brânzanic, G.L. Turdean: A poly(methyl methacrylate)-ibuprofen composite film as anticorrosive coating of Ti-6Al-4 V surface *Journal of Solid State Electrochemistry* 35 (2023). DOI: 10.1007/s10008-023-05681-w

Capitol în carte:

F. Deac, **N. Cotolan**, Z. Kis, R. Silaghi-Dumitrescu: "A dithionite-induced six-coordinated species at the heme in deoxy-hemoglobin" in "10th International Symposium on Metal Elements in Environment, Medicine and Biology", Tome X, Eurobit Publishing House Timișoara, pp. 121-126, November 11-12 (2010) ISSN 1583-4204.

Teza de doctorat:

Smart corrosion resistant coatings (2015), Cluj-Napoca UBB, FCIC

Conferințe:

1. *Soós Ernő International Scientific Conference (VSZI'23)* 19-20 Octombrie **2023**, Veszprém, Ungaria. A. Belcovici, I.C. Fort, **N. Cotolan**, G.L. Turdean (prezentare orală).
2. 13th International Conference, Processes in Isotopes and Molecules. 22-24 Septembrie **2021**, Cluj-Napoca, Romania. **N. Cotolan**, J.D. Chelaru, L.-M. Muresan, L. Barbu-Tudoran, D. Bogdan (poster).
3. *ElecNano⁹* 23-24 Noiembrie **2020**, Franta, Paris. A. Belcovici, **N. Cotolan**, G.L. Turdean: (prezentare orală).
4. *71 Annual Meeting of the International Society of Electrochemistry* 30 August-4 Septembrie **2020** Belgrade, Serbia. **N. Cotolan**, L.-M. Mureșan, G.L. Turdean, D. Bogdan, A. Salis (poster).
5. *7 International Conference on Materials and Applications for Sensors and Transducers* 24-27 Septembrie **2018**, Bratislava, Slovacia. **N. Cotolan**, L.-M. Muresan, G.L. Turdean, A. Salis: (poster).
6. *XVth Edition International Conference 'Students for Students'* **2018**, 18-22 Aprilie, Cluj-Napoca, România. F.A. Moldovan, **N. Cotolan**, L.C. Coteț, L. M. Mureșan (poster).
7. *9th International Conference on Advanced Materials ROCAM* **2017**, 11-14 Iulie, Bucharest, Romania. **N. Cotolan**, M. Rusu, G.L. Turdean, V. Danciu, C.I. Fort, L. Baia, L.C. Coteț (poster).
8. *International U.A.B. - B.EN.A Conference, Environmental Engineering and Sustainable Development*, May 25-27, **2017**, Alba-Iulia, Romania. **N. Cotolan**, C. Coteț, L. Mureșan (poster).
9. *18th International Conference Materials, Methods & Technologies*, 26-30 Iunie, **2016**, Elenite, Bulgaria. C.I. Fort, **N. Cotolan**, M. Rusu, V. Danciu, L.C. Coteț, L. Baia, (poster).
10. *Graphene Week*, 13-17 Iunie, **2016**, Warsaw, Poland, M. Rusu, **N. Cotolan**, A. Lazar, C.I. Fort, L. Baia, L.C. Coteț (poster).
11. *Global Nanotechnology Congress & Expo*, 19-24 Aprilie, **2016**, Dubai, UAE, L.C. Coteț, M. Rusu, R.A. Deac, **N. Cotolan**, A. Lazar, C.I. Fort, L. Baia (poster).
12. *5th Regional Symposium on Electrochemistry South-East Europe (RSE-SEE)*, 7-11 Iunie, **2015**, Pravets, Bulgaria, **N. Cotolan**, L. Mureșan, M. Bele, I. Milošev (prezentare orală). Awarded for The Best Young Oral Scientist Presentation (RSE-SEE 2015).
13. *20th International Conference on Chemistry*, 6-9 Noiembrie, **2014**, Cluj-Napoca, România, **N. Cotolan**, E. Albert, G. Szabó, Z. Hórvölgyi, L. Mureșan (poster).
14. *5th Conference on Advanced Spectroscopies on Biomedical and Nanostructured Systems*, 7-10 Septembrie, **2014**, Cluj-Napoca, România, **N. Cotolan**, A. Pop, D. Marconi, O. Ponta, L.M. Mureșan (poster).
15. *19th International Conference on Chemistry*, 21-24 Noiembrie, **2013**, Baia-Mare, România, **N. Cotolan**, E. Albert, E. Nagy, Z. Hórvölgyi, G. Szabó, L.M. Mureșan (poster).
16. *19th International Conference on Chemistry*, 21-24 Noiembrie, **2013**, Baia-Mare, România. A. Emőke, **N. Cotolan**, N. Erika, H. Zoltán, S. Gabriella, L. Mureșan (poster).
17. *4th Regional Symposium on Electrochemistry South-East Europe (RSE-SEE)*, 26-30 Mai, **2013**, Ljubljana, Slovenia. **N. Cotolan**, L. Mureșan (poster).