

Publications **11 publications** (2 ISI articles, 2 oral presentations, 7 communications at conferences)

ISI Articles

- Presentations
- Conference
1. Simona Rada, **Denisa Cuibus**, H. Vermesan, P.Pascuta, E. Culea, Structural and Electrochemical properties of recycled active electrodes from spent lead acid battery and modified with different manganese dioxide contents, *Electrochemical Acta* 268 (2018) 332-339.
 2. S. Rada, M. Unguresan, M. Rada, **D. Cuibus**, J. Zhang, A. Pengfei, R. Suci, A. Bot, E. Culea, Manganese-lead-lead glass dioxide ceramics as electrode materials, *J. Electrochemical Society* 166 (16) (2019) A3987-A3996.

Oral presentations:

1. **D. Cuibus**, S. Rada, H. Vermesan, P. Pascuta, E. Culea, Research on the recycling of electrodes from a used car battery and their doping with manganese dioxide, *Simtech Student Scientific Communication Session 2017*, May 25, 2017, Cluj-Napoca, page 5.
2. **D. Cuibus**, H. Vermesan, E. Culea, S. Rada, Vitroceramic electrodes obtained from reagents versus electrodes recycled from the car battery, *Simtech Student Scientific Communications Session 2019*, May 17, 2019, Cluj-Napoca, page 20.

Scientific communications at national and international conferences

1. **Denisa Cuibus**, Simona Rada, H. Vermesan, R.C. Suci, S. Macavei, M. Rada, E. Culea, A. Bot, Electrodes obtained by the recycling of spent car batteries and the doping with manganese (IV) oxide, *The 17th International Balkan Workshop on Applied Physiscs, IBWAP 2017*, July 11-14, 2017, Constanta,
2. R.C. Suci, **Denisa Cuibus**, Simona Rada, P. Pășcuță, H. Vermeșan, M. Rada, E. Culea, XRD and spectroscopic investigations of manganese-lead-lead dioxide vitroceramics, *The 17th International Balkan Workshop on Applied Physiscs, IBWAP 2017*, July 11-14, 2017, Constanta.
3. S. Rada, M. Rada, **D. Cuibus**, H. Vermesan, E. Culea, The optimization of the recycled lead with manganese dioxide contents for the applications on the automobile batteries, *XXXIV European Congress on Molecular Spectroscopy (EUCMOS 2018)* Coimbra – Portugal, 19-24 August 2018, OC 42.
4. M. Rada, M. Zagrai, **D. Cuibus**, S. Macavei, R. Erhan, V. Bodnarchuk and S. Rada, 2019. "Structural investigation of recycled and vanadium-copper doped materials" 12th International Conference Processes in Isotopes and Molecules (PIM), Book of Abstracts, September 2019, Cluj-Napoca, Romania, 2019, POSTER T3-15, pp.72.
5. I. Brezeștean, D. Cuibus, N. Tosa, A. Falamas, C. Muntean, A. Bende, and C. Farcău 2021. " Surface-enhanced Raman spectroscopy of endosulfan pesticides on silver nanoparticle films fabricated by convective self-assembly" 13th International Conference Processes in Isotopes and Molecules (PIM), Book of Abstracts, September 2021, Cluj-Napoca, Romania, 2021, POSTER T2.
6. I. Brezeștean, D. Cuibus, N. Tosa, S. Boca, C. Muntean, A. Falamas, A. Bende, and C. Farcău 2021. " Surface-enhanced Raman spectroscopy of propranolol on different SERS substrates-astep towards dual SERS- electrochemical sensors for pharmaceutical pollution monitoring" 13th International Conference Processes in Isotopes and Molecules (PIM), Book of Abstracts,

September 20 21, Cluj -Napoca, Romania, 2021, POSTER T2-34.

7. D. Cuibus, H. Vermesan, S. Rada, S. Macavei, E. Culea, 2019. "Manganese oxide - antimony oxide - lead - lead dioxide vitroceramics" 13th International Conference Processes in Isotopes and Molecules (PIM), Book of Abstracts, September 2021, Cluj-Napoca, Romania 2021, POSTER T3-23.

Awards

1. First awards at *the SIMTECH Scientific Communication Session 2017* Cluj-Napoca, Environmental Engineering section, with the paper "Research on the recycling of electrodes from a used car battery and their doping with manganese dioxide" elaborated by **Denisa Cuibus**, Simona Rada, H. Vermeşan, P. Păşcuţă, E. Culea.

2. Mention at *the SIMTECH Scientific Communication Session 2019*, Cluj-Napoca, Environmental Engineering section, with the paper "Vitroceramic electrodes obtained from reagents versus electrodes recycled from the car battery" elaborated by **Denisa Cuibus**, H. Vermeşan, E. Culea, Simona Rada.

Participation in research projects

1. Bridge project with No. 106BG/2016, the topic of Expertise of zirconium oxide partially stabilized with other oxides for applications in dentistry, project director: assoc. prof. ably. dr. Rada Simona, **member of the project.**

2. Bilateral Project Romania-China mobilities No. 13BM/2018 with the theme "Optimization of recycled lead for applications to the automotive battery", project director: CIS. adroit. Dr. Rada Simona, **member of the project.**