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Research topics:

Polysaccharides; Functionalization and characterization of polysaccharides; Nitroxyl radicals; Catalysts; Hydrogels; Synthesis, characterization and applications of hydrogels.

Education:

2017 – 2020 PhD in Chemistry, PhD thesis title: „**Synthesis, characterization and applications of new hydrogels from renewable resources**", Romanian Academy, „Petru Poni" Institute of Macromolecular Chemistry, Iasi, PhD Coordinator: **Dr. Sergiu Coșeri**.
2009 – 2010 – Faculty of Chemical Engineering and Environmental Protection, „Ghe. Asachi" Tehnical University of Iasi – Master of Science in Engineering.
2004 – 2009 – Faculty of Chemical Engineering and Environmental Protection, „Ghe. Asachi" Tehnical University of Iasi – Engineer Diploma.

Publications:

1. Bercea M., Biliuta G., Avadanei M., **Baron R. I.**, Butnaru M., Coseri S.
   Self-healing hydrogels of oxidized pullulan and poly(vinyl alcohol) *Carbohydrate Polymers*, 2019, 206, 210-219
   DOI: 10.1016/j.carbpol.2018.11.001
2. **Baron R. I.**, Bercea M., Avadanei M., Lisa G., Biliuta G., Coseri S.
   Green route for the fabrication of self-healable hydrogels based on tricarboxy cellulose and poly(vinyl alcohol)
   International Journal of Biological Macromolecules 2019, 123 744-751.
   DOI: 10.1016/j.ijbiomac.2018.11.107
3. **Baron R. I.**, Culica M. E., Biliuta G., Bercea M., Gherman S., Zavastin D., Ochiuz L., Avadanei M., Coseri S.
   Physical Hydrogels of Oxidized Polysaccharides and Poly(Vinyl Alcohol) for Wound Dressing Applications
   Materials 2019, *12*(9), 1569
   DOI: 10.3390/ma12091569
4. Culica M. E., Biliuta G., Rotaru R., Lisa G., **Baron R. I.**, Coseri S.
   New Electromagnetic Shielding Materials Based on Viscose - Carbon Nanotubes Composites

Polymer Engineering & Science 2019, 59, 1499-1506
DOI: 10.1002/pen.25149

5. Culica M. E., Kasperczyk K., **Baron R. I.**, Biliuta G., Macsim A.M., Lazea-Stoyanova A., Orlinska B., Coseri S.
Recyclable Polymer-Supported N-Hydroxyphthalimide Catalysts for Selective Oxidation of Pullulan
Materials 2019, 12, 3585
DOI: 10.3390/ma12213585
6. Nica, I.; Zaharia, C.; **Baron, R. I.**; Coseri, S.; Suteu, D.
Adsorptive materials based on cellulose: preparation, characterization and application for copper ions retention
Cellulose Chemistry and Technology 2020, 54, 579-590.
DOI: 10.35812/CelluloseChemTechnol.2020.54.58
7. Culica, M.E.; Avadanei, M.; **Baron, R. I.**; Chibac-Scutaru, A.L.; Asandulesa, M.; Biliuta, G.; Lisa, G.; Coseri, S.
The source of conductivity and proton dynamics study in TEMPO-oxidized cellulose doped with various heterocyclic molecules
Cellulose 2020, 27, 8585-8604.
DOI: 10.1007/s10570-020-03372-7
8. **Baron, R. I.**; Coseri, S.
Preparation of water-soluble cellulose derivatives using TEMPO radical-mediate doxidation at extended reaction time
Reactive & Functional Polymers 2020, 157, 104768.
DOI: 10.1016/j.reactfunctpolym.2020.104768