

LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII ȘTIINȚIFICE DIN PROGRAMUL DE STUDII DOCTORALE

Nume: **Culică**

Prenume: **Mădălina Elena**

1. **Lucrări publicate** - în reviste cotate ISI (Web of Science cu factor de impact):
 1. **Madalina E. Culica**, Andreea L. Chibac-Scutaru, Tamilselvan Mohan, Sergiu Coseri. Cellulose-based biogenic supports, remarkably friendly biomaterials for proteins and biomolecules. *Biosensors and Bioelectronics*, **2021**, 182, 113170 (FI = **10,62**)
 2. Violeta Melinte, Andreea L. Chibac-Scutaru, **Madalina E. Culica**, Sergiu Coseri. Mineralization versus photoreduction of 4-nitrophenol under the influence of surface functionalized CeO₂ nanoparticles, hosted by versatile cellulose supports. *Applied Surface Science*, **2021**, 565, 150494 (FI = **6,707**)
 3. **Madalina E. Culica**, Andreea L. Chibac-Scutaru, Violeta Melinte, Sergiu Coseri. Cellulose acetate incorporating organically functionalized CeO₂ NPs: efficient materials for UV filtering applications. *Materials*, **2020**, 13, 2955 (FI = **3,623**)
 4. **Madalina E. Culica**, Mihaela Avadanei, Raluca I. Baron, Andreea L. Chibac-Scutaru, Mihai Asandulesa, Gabriela Biliuta, Gabriela Lisa, Sergiu Coseri. The source of conductivity and proton dynamics study in TEMPO-oxidized cellulose doped with various heterocyclic molecules. *Cellulose*, **2020**, 27, 8585–8604 (FI = **5,044**)
 5. **Madalina E. Culica**, Gabriela Biliuta, Razvan Rotaru, Gabriela Lisa, Raluca I. Baron, Sergiu Coseri. New electromagnetic shielding materials based on viscose-carbon nanotubes composites. *Polymer Engineering and Science*, **2019**, 59, 1499-1506 (FI = **2,428**)
 6. Raluca I. Baron, **Madalina E. Culica**, Gabriela Biliuta, Maria Bercea, Simona Gherman, Daniela Zavastin, Lacramioara Ochiuz, Mihaela Avadanei, Sergiu Coseri. Physical hydrogels of oxidized polysaccharides and poly(Vinyl Alcohol) for wound dressing applications. *Materials*, **2019**, 12, 1569 (FI = **3,623**)
 7. **Madalina E. Culica**, Kornela Kasperczyk, Raluca I. Baron, Gabriela Biliuta, Ana M. Macsim, Andrada Lazea-Stoyanova, Beata Orlinska, Sergiu Coseri. Recyclable polymer-supported N-Hydroxyphthalimide catalysts for selective oxidation of pullulan. *Materials*, **2019**, 12, 3585 (FI = **3,623**)

8. **Madalina E. Culica**, Razvan Rotaru, Dana Bejan, Sergiu Coseri. Covalent linkage of carbon nanotubes onto cellulosic fabrics via Schiff Base reaction, and their conductive behavior, **trimisă spre publicare**

2. *Comunicări la conferințe naționale sau internaționale*

1. Mihai Asandulesa, **Madalina E. Culica**, S. Coseri. Dielectric spectroscopy investigation of novel hybrid composites obtained from cellulose derivatives doped with 1-Hydroxybenzotriazole. *13th International Conference on Physics of Advanced Materials*, Sant Feliu de Guixols, Spain, 24 - 30 September, **2021**
2. **Madalina E. Culica**, Andreea L. Chibac-Scutaru, Violeta Melinte, Sergiu Coseri. Cellulose - derived matrices for functionalized CeO₂ nanoparticles immobilization, and their photocatalytic behavior. *Bucharest Polymer Conference, 2nd Edition*, University Politehnica of Bucharest, Romania, 10 - 11 June **2021**
3. Andreea L. Chibac-Scutaru, Violeta Melinte, **Madalina E. Culica**, Sergiu Coseri. Versatility of cellulosic matrix used for immobilization of synthesized CeO₂ nanoparticles in tailoring the photocatalytic properties of hybrid composites. *The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications*, Romania, June 28 - 29, **2021**
4. **Madalina E. Culica**, Andreea Chibac-Scutaru, Violeta Melinte, Sergiu Coseri. Novel support based on renewable resources doped with cerium oxide nanoparticles with technical applications. *SICHEM 2020 - International Symposium of Chemical Engineering and Materials*, Faculty of Applied Chemistry and Materials Science, Bucharest, Romania, September 17 - 18, **2020**
5. Andreea Chibac-Scutaru, Violeta Melinte, **Madalina E. Culica**, Sergiu Coseri. Synthesis, organic functionalization and immobilization of CeO₂ nanoparticles in cellulose matrix. Evaluation of their photocatalytic efficiency. *SICHEM 2020 - International Symposium of Chemical Engineering and Materials*, Faculty of Applied Chemistry and Materials Science, Bucharest, Romania, September 17 - 18, **2020**
6. **Madalina E. Culica**, Andreea L. Chibac-Scutaru, Violeta Melinte, Sergiu Coseri. Stabilization of cerium oxide nanoparticles by natural derived polymeric matrices. *Sesiunea de comunicări științifice a tinerilor cercetători - Poartă deschisă spre viitor, MacroYouth*, Institutul de Chimie Macromoleculară „Petru Poni”, Iași, Romania, 19 noiembrie, **2020**

7. Raluca I. Baron, **Madalina E. Culica**, G. Biliuta, S. Coseri. Synthesis and characterization of hydrogels with wound dressing properties. *Congresul Internațional - Pregătim viitorul promovând excelența*, Universitatea „Apollonia” Iași, România, 27 februarie - 1 martie, **2020**
8. **Madalina E. Culica**, Raluca I. Baron, Gabriela Biliuta, Sergiu Coseri. Recyclable catalysts based on N-hydroxyphthalimide for selective oxidation of polysaccharides. *International Conference “Achievements and Perspectives of Modern Chemistry”*, Institute of Chemistry Chemical Society of the Republic of Moldova, Chisinau, Republic of Moldova, October 9 - 11, **2019**
9. Raluca I. Baron, **Madalina E. Culica**, Gabriela Biliuta, Maria Bercea, Sergiu Coseri. Selective oxidized polysaccharides for hydrogels preparation with wound dressing properties. *International Conference “Achievements and Perspectives of Modern Chemistry”*, Institute of Chemistry Chemical Society of the Republic of Moldova, Chisinau, Republic of Moldova, October 9 - 11, **2019**
10. **Madalina E. Culica**, Raluca-I. Baron, Gabriela Biliuta, Sergiu Coseri. New heterogeneous system for selective oxidation of various polysaccharides. *A XXXV-a Conferinta Nationala de Chimie*, Calimanesti-Caciulata, Valcea, Romania, 2 - 5 Octombrie, **2018**
11. Raluca I. Baron, Gabriela Biluta, **Madalina E. Culica**, Sergiu Coseri. Hidrogeluri cu proprietati de „auto-vindecare” din resurse regenerabile. *A XXXV-a Conferinta Nationala de Chimie*, Calimanesti-Caciulata, Valcea, Romania, 2 - 5 Octombrie, **2018**
12. **Madalina E. Culica**, Raluca Ioana Baron, Gabriela Biliuta, Sergiu Coseri. Oxidation of polysaccharides using NHPI-based catalysts. *IasiCHEM 2018*, Faculty of Chemistry Conference, Iasi, Romania, 25 - 26 October, **2018**
13. Raluca I. Baron, Maria Bercea, Gabriela Biliuta, **Madalina E. Culica**, Sergiu Coseri. Composite materials based on poly (vinyl alcohol) cross-linked with cellulosic derivatives. *IasiCHEM 2018*, Faculty of Chemistry Conference, Iasi Romania, 25 - 26 October, **2018**
14. **Madalina E. Culica**, Raluca I. Baron, Gabriela Biliuta, Sergiu Coseri. Polymer-supported N-hydroxyphthalimide as catalyst for naturally occurring biopolymers. *SICHEM 2018 - International Symposium of Chemical Engineering and Materials*, Faculty of Applied Chemistry and Materials Science, Bucharest, Romania, September 6 - 7, **2018**

15. Raluca I. Baron, Gabriela Biliuta, **Madalina E. Culica**, Sergiu Coseri. A new catalytic system for greener oxidation of cellulose. *SICHEM 2018 - International Symposium of Chemical Engineering and Materials*, Faculty of Applied Chemistry and Materials Science, Bucharest, Romania, September 6 - 7, **2018**
16. Dana Bejan, Gheorghită Zbancioc, Dorina Amăriucăi-Mantu, **Madalina E. Culica**, Ionel Mangalagiu, Costel Moldoveanu. Anion metathesis used to obtain new ionic liquids with imidazole skeleton. *IasiChem 2017*, Faculty of Chemistry Conference, Iași, România, 26 - 28 October, **2017**

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