

Lista lucrărilor științifice

1. **Irodia Roberta**. *Enhanced photocatalytic degradation of tetracycline by TiO₂ nanotubes coated with TiO₂ nanofibers*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science;
2. Mîndroiu Vasilica-Mihaela, Stoian Andrei-Bogdan, **Irodia Roberta**, Trușcă Roxana, Vasile Eugeniu, *Titanium Dioxide Thin Films Produced on FTO Substrate Using the Sol–Gel Process: The Effect of the Dispersant on Optical, Surface and Electrochemical Features*, Materials;
3. Mârsolea (Cristea) Adriana Cornelia, Orbeci Cristina, Rusen Edina, Stanescu Paul Octavian, Brincoveanu Oana, **Irodia Roberta**, Pirvu Cristian, Dinescu Adrian, Bobirica Constantin, Mocanu, Mocanu Alexandra, *Design of polyurethane composites obtained from industrial plastic wastes, pyrite and red mud*, Construction and Building Materials;
4. **Irodia Roberta**, Mîndroiu Mihaela, Biru Iuliana, Ionita Gabriela, Mihai Geanina V., Enachescu Marius, Orbeci Cristina, Pirvu Cristian, *Double S-Scheme Polydopamine/TiO₂/Chlorophyll as Stable and Efficient Green Photoelectrocatalyst*, ChemElectroChem;
5. Lupu Giovanina-Iuliana, Orbeci Cristina, Bobirica Constantin, Bobirica Liliana, Lazar Elena Sorana, Pandele-Cusu Jeanina, Verziu Marian Nicolae, Pirvu Cristian, **Irodia Roberta**, *Photocatalytic degradation of azithromycin formulation in aqueous solution by doped titanium dioxide/fiberglass-rubberized silicone photocatalytic membrane*, Sustainable Environment Research;
6. **Irodia Roberta**, Ungureanu Camelia, Satulu Veronica, Mîndroiu Vasilica Mihaela, *Photocatalyst Based on Nanostructured TiO₂ with Improved Photocatalytic and Antibacterial Properties*, Materials;
7. Adriana Cornelia Marsolea, Mocanu Alexandra, Stanescu Paul Octavian, Brincoveanu Oana, Orbeci Cristina, **Irodia Roberta**, Pirvu Cristian, Dinescu Adrian, Bobirica Constantin, Rusen Edina, *Synthesis and characterization of polyurethane flexible foams provided from PET derivatives, fly ash, and glass wastes*, Heliyon;
8. Mihăilă, Eliza Gabriela, Dincă Cristian, Adam Adrian Andrei, **Irodia Roberta**, *Economical Assesment of the CO₂ post-combustion capture process integration in a power plant*, Energy Environment Efficiency Resources Globalization;
9. Ramona-Daniela Radu (Dușman), Valentina Anuța, **Irodia Roberta**, Georgeta Totea, Doina Drăgănescu, Ioana Demetrescu, *Controlled release and antibacterial efficacy of tetracycline and metronidazole loaded PCL nanowires on Zirconium substrate*, Revista Farmacia.

BREVETE

- Brevet: Nr. A2023/00298, cu titlul: "Procedeu de fabricare a unui nou electrod pseudocapacitive catodic pe bază de nanocompozit de tip WO₃_nanofibre/TiO₂_redus electrochimic pe substrat de FTO cu activități electrochimice îmbunătățite". Autori: Mîndroiu Mihaela, Dumitriu Cristina, **Irodia Roberta**;
- Cerere de brevet Nr. A 2023/00379 cu titlul "Procedeu de obținere a unui fotocatalizator eficient de heterojuncție pe baza de polidopamina/TiO₂/clorofilă". Autori: **Irodia Roberta**, Mîndroiu Mihaela, Pîrvu Cristian

CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE

Proiect: *Fabricarea de noi ferestre electrocromice bi-funcționale care stochează energie, INNOBIFEESW*, Contract de finanțare Nr. TE 100/2022, **membru doctorand**.

Proiect: *Pregătirea doctoranzilor și cercetătorilor poStd doctorat în vederea dobândirii de coMpetențe de cercetARE aplicaTiva – SMART*, Contract de finanțare nr. 13530/16.06.2022, Cod SMIS: 153734, **membru doctorand**.

Școală de vara: *16th International Summer school on quality Assurance in a testing laboratory(ISO/IEC 17025)*, Cehia, Krtiny, 09 -22 iulie 2023; **membru doctorand**

