

**PhD. Student Chim. Roxana Ioana BRAZDIȘ (MATEI)**  
**List of papers that include data from the thesis**

**PAPERS LIST**

1. G.C. Ispas, R. Manea, **R.I. Brazdis**, A.M. Baroi, T. Fistos, R.C. Fierascu, M.F. Raduly, *Iron oxide/phosphatic materials composites with potential applications in environmental protection*, *Materials*, **13(21)**, (2020), 5034, IF=3,1
2. **R.I. Brazdis**, I. Fierascu, S.M. Avramescu, R.C. Fierascu, *Recent progress in the application of hydroxyapatite for the adsorption of heavy metals from water matrices*, *Materials*, **14(22)**, (2021), 6898, FI=3,1
3. R.C. Fierascu, I. Fierascu, **R.I. Brazdis (Matei)**, D. Manaila-Maximean, *Natural and natural-based polymers: Recent developments in management of emerging pollutants*, *Polymers*, **15(9)**, (2023), 2063, FI=4,7
4. **R.I. Matei (Brazdis)**, A.M. Baroi, T. Fistos, I. Fierascu, M. Grapin, V. Raditoiu, F.M. Raduly, C.A. Nicolae, R.C. Fierascu, *Clam shell-derived hydroxyapatite: a green approach for the photocatalytic degradation of a model pollutant from the textile industry*, *Materials* **17**, (2024), 2492, FI=3,1
5. **R.I. Matei (Brazdis)**, S.M. Avramescu, A.M. Baroi, T. Fistos, I. Fierascu, F.M. Raduly, R.C. Fierascu, *Removal of phenol and non-steroidal anti-inflammatory drugs from water matrices using doped hydroxyapatite*, *U.P.B. Sci. Bull. Series B*, **86(3)**, (2024), 75-84, FI=0,5
6. S.M. Avramescu, I. Fierascu, R.C. Fierascu, **R.I. Brazdis**, A.V. Nica, C. Butean, E.A. Olaru, S. Ulinici, M.N. Verziu, A. Dumitru, *Removal of paracetamol from aqueous solutions by photocatalytic ozonation over TiO<sub>2</sub>-MexO<sub>y</sub> thin films*, *Nanomaterials* **12(4)**, (2022), 613, FI=4,4

**SCIENTIFIC MEETINGS ATTENDED**

1. **R.I. Brazdis**, S.M. Avramescu, A.M. Baroi, T. Fistos, I. Fierascu, V. Raditoiu, R.C. Fierascu, *Adsorption studies for the removal of organic and emerging pollutants from aqueous solutions using metal-substituted hydroxyapatite*, International Scientific Conference „Applications of Chemistry in Nanosciences and Biomaterials Engineering, 25-26 June 2021, Bucharest, poster presentation
2. **R.I. Brazdis**, S.M. Avramescu, I. Fierascu, V. Raditoiu, C.A. Nicolae, R. Somoghi, R.C. Fierascu, *Evaluation of the potential environmental applications of phosphatic materials*, Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat, Nov. 2021, poster presentation
3. **R.I. Brazdis**, S.M. Avramescu, I. Fierascu, A.M. Baroi, T. Fistos, R.C. Fierascu, *Phosphatic nanomaterials with high performances for organic pollutants adsorption*, Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat Summer edition, June 2022, poster presentation
4. **R.I. Matei (Brazdis)**, S.M. Avramescu, I. Fierascu, A.M. Baroi, T. Fistos, R.C. Fierascu, *Application of phosphatic nanomaterials on polluted water decontamination – Case study*, Applications of Chemistry in Nanosciences and Biomaterials Engineering – NanoBioMat Winter edition, Nov. 2022, poster presentation

**5. R.I. Matei (Brazdis)**, S.M. Avramescu, I. Fierascu, T. Fistos, A.M. Baroi, R.C. Fierascu, *Wastewater depollution studies using hydroxyapatite-based adsorbents*, 22nd Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sept. 2022, Sinaia, Romania, poster presentation

**6. R.I. Matei (Brazdis)**, M. Grapin, V. Raditoiu, A.M. Baroi, T. Fistos, I.S. Hosu, I. Fierascu, R.C. Fierascu, *Phosphatic nanobiomaterials with metal-oxide heterojunctions – photocatalysts for wastewater treatment*, 16th International Scientific Symposium 2023 Current Trends in Natural Sciences, Pitesti, poster presentation

**7. R.I. Matei (Brazdis)**, M. Grapin, V. Raditoiu, I. Fierascu, A.M. Baroi, T. Fistos, A. Raditoiu, F.M. Raduly, R.C. Fierascu, *The use of hydroxyapatite and its derivatives in the depollution of wastewaters*, Virtual International Scientific Conference on “Applications of Chemistry in Nanosciences and Biomaterials Engineering” NanoBioMat – Summer Edition, June 2023, poster presentation

**8. R.I. Matei (Brazdis)**, V. Raditoiu, I. Fierascu, A.M. Baroi, T. Fistos, S.C. Ulinici, S.M. Avramescu, D. Radu, R.C. Fierascu, *Procedure for large-scale production of apatite based adsorbent material for arsenic removal*, The International Symposium "PRIORities of CHEMistry for a sustainable development" PRIOCHEM XIXth Edition, Oct. 2023, poster presentation

**9. R.I. Brazdis**, S.M. Avramescu, I. Fierascu, A.M. Baroi, T. Fistos, R.C. Fierascu, *Adsorption studies of ibuprofen and phenol from aqueous samples using phosphatic materials*, NeXT-Chem: Innovative cross-sectoral technologies, IVth Edition, May 2022, oral presentation

**10. M. Grapin, R.I. Matei (Brazdis)**, V. Raditoiu, A. Raditoiu, F.M. Raduly, A.M. Baroi, T. Fistos, I.S. Hosu, I. Fierascu, R.C. Fierascu, *Synthesis and characterization of metal-oxide photocatalysts with heterojunctions for wastewater treatment*, NeXT-Chem: Innovative cross-sectoral technologies, Vth Edition, May 2023, oral presentation

**11. R.I. Matei (Brazdis)**, M. Grapin, V. Raditoiu, A.M. Baroi, T. Fistos, F.M. Raduly, I. Fierascu, R.C. Fierascu, *Phosphatic nanobiomaterials with metal-oxide heterojunctions - photocatalysts for wastewater treatment*, NeXT-Chem: Innovative cross-sectoral technologies, VIth Edition, May 2024, oral presentation