

## Papers List

- 1: I. Calinescu, A. **Vartolomei (Saulescu)**, I. A. Gavrilă, M. Vinatoru and T. J. Mason (2019). "A reactor designed for the ultrasonic stimulation of enzymatic esterification." *Ultrasonics Sonochemistry* 54: 32-38; WOS:000466997500004. <https://doi.org/10.1016/j.ultsonch.2019.02.018>; (IF = 6.75)
- 2: **A. Vartolomei (Saulescu)**, I. Calinescu, M. Vinatoru and A. Gavrilă (2019). "Intensification of the Enzymatic Esterification Process by Ultrasounds." *Revista De Chimie* 70(1): 41-44; WOS:000460428100009. (IF = 1.755)
- 3: **A. Vartolomei (Saulescu)**, Calinescu, I., Gavrilă, A. I., & Vinatoru, M. "Ultrasound Assisted Synthesis of Isoamyl Acetate Catalysed By Acidic Ion Exchange Resin", *Bull.UPB.*, vol.83, (1), pp113-124, WOS:000627764100010
- 4: **A. Vartolomei (Saulescu)**, Calinescu, I., Vinatoru, M. et al. "A parameter study of ultrasound assisted enzymatic esterification", *Sci Rep* 12, 1421 (2022). <https://doi.org/10.1038/s41598-022-05551-x> (IF = 4.379)

## Patent

- 5: I. Calinescu, **A. Vinatoru**, A. Gavrilă, A. Vartolomei (**Saulescu**), N. Ignat, "Instalație cu ultrasunete destinată studiului reacțiilor enzimatică"; Patent Number(s): RO133341-B1 din 30.12.2021; Derwent Primary Accession Number: 2019-49655R; BOPI 5/2019

## Scientific meetings attended

- 1: **A., Vartolomei**, I., Calinescu, I-A., Gavrilă, M., Vinatoru, T. J., Mason, A reactor designed for the ultrasonic stimulation of enzymatic esterification, *4th International Caparica Conference on Ultrasonic-based Applications: from analysis to synthesis 2020, 01-04 iunie, 2020, Costa de Caparica, Portugalia* -oral presentation
- 2: Adina Ionuța Gavrilă, **Anamaria Vartolomei**, Mircea Vinatoru, Ioan Calinescu, The effect of ultrasounds on enzymatic transesterification, *4th International Caparica Conference on Ultrasonic-based Applications: from analysis to synthesis 2020, 01-04 iunie, 2020, Costa de Caparica, Portugalia* - oral presentation
- 3: **A. Vartolomei**, I. Calinescu, A.I. Gavrilă, M. Vinatoru, Activation with ultrasounds of Lipozyme 435 for esterification and transesterification reactions, *Chemistry Conference for Young Scientists - ChemCYS 2020, 19-21 februarie, 2020, Blankenberge, Belgia* -poster
- 4: Adina Ionuța Gavrilă, **Anamaria Vartolomei**, Ioan Calinescu, Mircea Vinatoru, Biodiesel Synthesis by Ultrasound Assisted Enzymatic Transesterification, *International Chemical Engineering & Catalysis Conference (Chemical Engineering & Catalysis-2019), 12 - 13 decembrie 2019, Londra, Marea Britanie* -poster
- 5: **Anamaria Vartolomei**, Ioan Calinescu, Mircea Vinatoru, Adina I. Gavrilă, Lipozyme 435 esterification activity improvement using short term treatments with

ultrasounds, *21st Romanian International Conference on Chemistry and Chemical Engineering (RICCCE)*, 4 - 7 septembrie 2019, Constanta-Mamaia, ROMANIA - oral presentation

- 6: **Anamaria Vartolomei**, Ioan Calinescu, Adina-Ionuta Gavrilă, Mircea Vinatoru, Optimisation of the ultrasonic assisted lipase catalysed reaction of acetic acid with isoamyl alcohol, *International Symposium of Chemical Engineering and Materials SICHEM 2018*, 6 – 7 September, Bucharest, Romania - oral presentation
- 7: **Anamaria Vartolomei**, Ioan Calinescu, Adina I. Gavrilă, Mircea Vinatoru, Ultrasound Assisted Enzymatic Synthesis Of Iso-Amil Acetate, *"Young Researchers" International Conference on Chemistry and Chemical Engineering (YRICCCE II)*, Budapest, Hungary, May 03–05, 2018 - oral presentation
- 8: Vinatoru M., Calinescu I. ,**Vartolomei A-M**, Gavrilă I-A, Effects of Ultrasound on Enzymatic Esterification, *16th Meeting of the European Society of Sonochemistry, Universite Bourgogne Franche-Comte, Besancon, April 15 -19, 2018* - oral presentation
- 9: **Anamaria Vartolomei**, Adina Ionuta Gavrilă, Ioan Calinescu, Intensification of Enzymatic Synthesis of Esters in Ultrasound Assisted System, *20th Romanian International Conference on Chemistry and Chemical Engineering Poiana Brasov, ROMANIA - September 6-9, 2017* - oral presentation