

**PhD student: BROȘTEANU Alma Valentina**  
**List of published works that include data from the PhD thesis**

**a) Papers in Scientific Journals**

- 1.** Banu I., **Broșteanu A. V.**, Bumbac G., Bozga G., Ethanol Conversion to Butadiene: A Thermodynamic Analysis, *Industrial and Engineering Chemistry Research.*, 60 (2021), 13071–13083 (IF 4.2) Q2 Engineering, Chemical.
- 2.** **Broșteanu A.V.**, Bozga G., Banu I., A kinetic model for the direct conversion of ethanol to 1,3-butadiene, *U.P.B. Scientific Bulletin, Series B*, Vol. 84, Iss. 4, 2022 (IF 0.16) Q4 Engineering, Multidisciplinary.
- 3.** **Broșteanu A. V.**, Banu I., Bozga G., An Analysis of Fixed-Bed Catalytic Reactors Performances for One-Stage Butadiene Synthesis from Ethanol, *Catalysts*, 14 (2024), 83-97 (IF 3.9) Q2 Engineering, Chemical.
- 4.** Bozga G., **Broșteanu A. V.**, Banu I., Dimian A. C., One stage butadiene synthesis from ethanol. A design study for a multitubular fixed bed reactor, *Chemical Engineering Research and Design*, accepted (IF 4.29) Q2 Engineering, Chemical.

**b) Conference**

Bozga G., **Broșteanu A. V.**, Dimian A. C., Synthesis of 1,3 butadiene from ethanol. Comparative performances of classical catalytic reactors, Romanian Academy of Technical Science Conference (Zilele ASTR), October 2023, Brasov.