



UNIVERSITY OF NAPOLI "FEDERICO II"
POLYTECHNIC AND SCIENCE SCHOOL

Department of Chemical Sciences

Ph.D. School in Chemical Sciences (40th Cycle)



Project presentation

The aim of this project, which is part of a collaboration with Versalis SpA, is to prepare and screen a variety of well-defined molecular catalysts for EPDM production, aiming to build up a comprehensive SPR database usable for predictive QSPR modeling. The results may ultimately enable a drop-in replacement of the currently used V-based Ziegler-Natta systems, ending up with a less demanding process and a more environmentally-friendly technology.

Ph.D. Student

Mattia Bani

Title

Structure-Properties Relations (SPRs) of molecular catalysts for the synthesis of high-performance ethylene-propylene-diene (EPDM) elastomers.

