



Dr. M. Nicoletta Ravasio

Indirizzo: CNR ISTM, via C.Golgi 19, 20133 Milano

e-mail: n.ravasio@istm.cnr.it

Breve CV

From 2001 Senior Scientist CNR ISTM, Milano; from 1988 scientist CNR
1987 Ph.D. Bari University; 1982 Master Thesis Milano University

Main scientific interests:

- Heterogeneous catalysis for synthetic Chemistry
- Green Chemistry
- Renewable raw materials
- Biorefinery driven technologies

Most of her scientific activity has been devoted to the study of selective hydrogenation of polyunsaturated organic compounds and selective oxidation of secondary alcohols over Cu based catalysts with the aim of substituting complex metal hydrides, that are toxic and pyrophoric, and stoichiometric oxidants, avoiding the production of inorganic salts (low salt technologies) and improving the safety of these processes.

Another main field of interest concerns the use of renewable raw materials (cellulose, oils and fats, essential oils, terpenes) for the synthesis of industrial products. She studies innovative technologies for the production of Biodiesel (3 International Patents) particularly from non-food oils, for the synthesis of biodegradable lubricants and of polyols as intermediates for the synthesis of vegetable oil derived polyurethanes. Other fields of interest: epoxidation reactions over heterogeneous Ti and Nb catalysts; Solid Lewis acid catalysts; set-up of bi- and tri-functional processes to reduce the number of steps in a synthesis; Fe based catalysts for Friedel Craft reactions.

Professor of College and Inorganic Chemistry, faculty of Agricultural Sciences, University of Milano; Member Scientific Committee Italian Platform on Biofuels; Member Steering Committee Italian group of Green Chemistry In charge of several industrial research projects with Italian and foreign companies.

Author or coauthor of > 120 scientific papers and 6 patents