



Luca Lietti

Luca Lietti has been full Professor of Chemical Engineering at Politecnico di Milano since March 2001.

Luca Lietti was born in Como, Italy, on December 7th, 1960. He graduated in chemical engineering at the Politecnico di Milano in 1985 and earned his doctorate under Professor Italo Pasquon at Politecnico di Milano in 1989. From 1989 to 1992 he was Post-doc at the Department of Industrial Chemistry and Chemical Engineering (now Department of Chemistry, Materials and Chemical Engineering), Politecnico di Milano, where he became Assistant professor in 1992. From October 1993 to April 1994 he was Visiting Scientist at Lehigh University (PA), USA, working with Prof. Kamil Klier. In 1998 he was appointed professor of Industrial Catalysis at the Department of Chemistry, Materials and Chemical Engineering, Politecnico di Milano, and in 2001 he became full professor at the same department. In 2008 he moved to the Dept. of Energy of the same University, where he is presently.

From 2010 to 2014 he served as Chairman of the Study Programme in Chemical Engineering (B.Sc. and M.Sc.) at Politecnico di Milano.

His major interests are in heterogeneous catalytic processes, especially for energy and the environment. He has developed interdisciplinary skills and expertise in mechanistic and kinetic investigations, aiming to clarify the relationships between the surface and structure properties of catalysts and their ability to guide chemical reactions along specific pathways.

Current researches and investigated aspects include mainly CO₂ hydrogenation to fuels and chemicals, NO_x storage-reduction catalysts for NO_x abatement in mobile sources, Fischer-Tropsch synthesis over Co- and Fe-based catalysts, catalytic soot oxidation and combined soot-NO_x removal, Ammonia SCR of NO_x.

He has published more than 200 ISI-classified publications, several review articles appeared as books chapters and 3 patents. He edited the book entitled "NO_x trap catalysts and technologies: fundamentals and industrial applications", published by RSC in 2018. H-index: 53 (scopus database, July 2019).