

Stefania Moioli - Curriculum Vitae (year 2019)

Stefania Moioli is Assistant Professor (Ricercatore a Tempo Determinato Senior (B)) at Dipartimento di Chimica, Materiali e Ingegneria Chimica “Giulio Natta” of Politecnico di Milano. She is member of the “Group on Advanced Separation Processes & Gas Processing - GASP”, in which she studies the purification of acid gases, regarding in particular both thermodynamics and mass transfer with reaction modeling. Her research interests cover thermodynamics, kinetic modeling and steady state/dynamic process simulation.

Stefania Moioli graduated (M.Sc. degree) magna cum laude in Chemical Engineering at Politecnico di Milano in 2009. Starting from January, 2010 she joined as PhD student in Industrial Chemistry and Chemical Engineering the Dipartimento di Chimica, Materiali e Ingegneria Chimica “Giulio Natta” of Politecnico di Milano, where in 2010 she earned a grant sponsored by Maire Tecnimont S.p.A.. On March 22nd, 2013, she obtained a cum laude PhD degree in Industrial Chemistry and Chemical Engineering from Politecnico di Milano, earned defending the thesis entitled “Simulation of the Gas Purification Process with Aqueous Solutions of Amines”. She focused her post-doctoral research on acid gas sweetening process and on downstream purifications in bioprocesses, by obtaining two post-doctoral grants (one supported by the Italian Ministry of Education, University and Research) on these topics at Politecnico di Milano in 2013 and in 2014. She became Research Fellow (Ricercatore a Tempo Determinato Junior (A)) in 2015 and in 2016 she spent six months at University of Sydney as Affiliate, working on acid gas removal by chemical solvents with precipitating salts. She became Assistant Professor (Ricercatore a Tempo Determinato Senior (B)) in 2018.

Since 2010 she has been teaching assistant for courses in the field of the Unit Operations for Chemical Plants at Politecnico di Milano, where since 2014 she is in charge of the course “Impianti dell’Industria di Processo” / “Process Plants” and since 2017 of the course “New Technology Frontiers in Gas Production, Transportation and Processing”. She is advisor and co-advisor of B.Sc. and M.Sc. theses in Chemical Engineering.

Stefania Moioli is associate of Istituto Nazionale di Fisica Nucleare and she is involved in the DarkSide collaborations and in the ARIA project for the production by cryogenic distillation of Argon depleted in ³⁹Ar.

She has been involved in several projects funded by public institutions and research contracts between Politecnico di Milano and external companies, mainly Oil and Gas Companies and Engineering groups.

She has presented results of her research activity at international conferences (in English) in the field of chemical engineering.

She is first author and co-author of several papers published on peer-reviewed international scientific journals. She is also a reviewer for papers submitted to international scientific journals.

In 2013 she received the “Mention for Scientific Productivity” as PhD Student of XXV Cycle of PhD course in Industrial Chemistry and Chemical Engineering at Politecnico di Milano (2010-2013). In

2015 she was awarded with the Endeavour Research Fellowship 2016 Round, a prestigious programme offered by the Australian Government to support high-achieving professionals to undertake research in Australia.