

Marzia Pentimalli was born in Naples (Italy) on December 20, 1969. She received her degree in Physics with honours, from the University “Federico II” of Naples. Marzia is researcher at ENEA since 2001, her research activity being devoted to material science, focused on physical and chemical characterization of polymeric and inorganic materials. She has been working on several research projects regarding the development of composite materials for advanced applications, such as metal hydride-matrix composites for solid-state hydrogen storage (FIRB, 2011) and for a metal hydride heat pump for waste heat recovery (FP7-SME-HP-ACS, 2015). Current activities include studies on post-synthesis processing and characterization of metal organic frameworks (MOFs) with potential applications in gas storage/separation (H_2 , CH_4 , CO_2), catalysis, purification (fuel desulphurization), solar cooling, waste heat recovery and so on. Recently, she conducted a study focused on an innovative technology for low-grade waste heat recovery based on adsorbent MOFs, specifically applied to the industrial drying process of pasta (RdS, PAR 2015-2018). Marzia has attended many courses and conferences focused on material science and technology and is author of about 30 publications on international journals.