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Prete's research studies deal with the synthesis and physical properties of III-V and II-VI compound semiconductor structures for applications to the fields of nano-/opto-electronics, sensing and 3rd generation photovoltaics. In recent years her activities focused on the synthesis of semiconductor nano-/hetero-structures – such as core-(multi)shell GaAs-AlGaAs nanowires – by bottom-up methods and their nanometer-scale characterization. More recently, Prete's studies have been focusing also on the van der Waals epitaxial growth of 2D layered (graphene and graphene-like) materials deposited by MBE and CVD. Visiting staff scientist at Glyndwr University, UK (1996-1997).

Awarded by the Italian Association of Crystallography (AIC), Young Scientists Prize, 2000.

More than 110 papers published on international journals, 12 invited talk and 220 presentations at International Conferences.

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