

Industrial-scale production of graphene and other 2D materials

Andrea Gamucci, BeDimensional Srl

The activities carried out in the framework of the Graphene Labs of the Istituto Italiano di Tecnologia and its start-up company, BeDimensional, will be presented highlighting the focus on the production with patented technology of high-quality 2D-crystals and their integration in composites. Pristine few-layers graphene and other 2D crystals can be produced with our technique in industrially relevant and appealing quantities. Solutions concerning the functional compounding of graphene and other 2D crystals with polymers, elastomers and other common materials will also be presented, which pave the way for the efficient introduction of such innovative 2D materials in the market.