

The role of AFM in the characterization of graphene and related materials

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We will provide an overview of the strategy of BeDimensional in the development of industrial-scale, reliable, inexpensive production processes of graphene and related two-dimensional materials (GRMs).[1-3] This is a key requirement for their widespread use in several application areas,[1-10] providing a balance between ease of fabrication and final product quality. In this context, the characterization of the as produced nanomaterials (Figure 1) plays a key role to maintain the high-quality production ruled by the ISO standard and for the reliable manufacture of GRMs by wet-jet milling [3] and the route towards future Industrial scale up. We will provide an overview of the quality control procedure set by BeDimensional for the characterization of the as produced GRMs, focusing on the role of the AFM measurements on the analysis defined by the ISO standard.

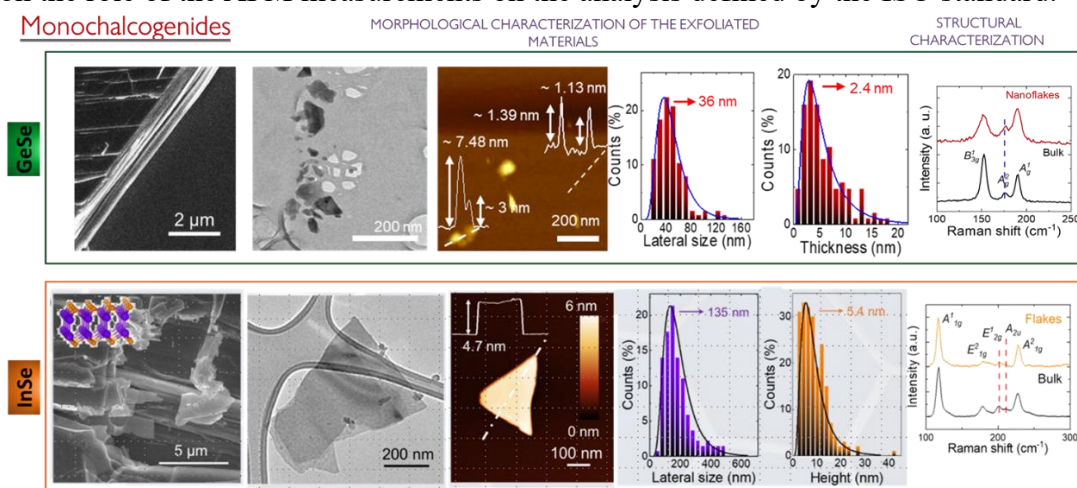


Fig. 1. Morphological and structural characterization of some monochalcogenides, *i.e.*, GeSe and InSe, produce by BeDimensional.

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