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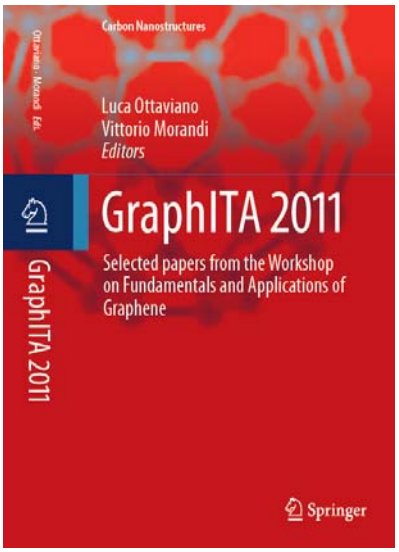

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GraphITA 2011

Selected papers from the Workshop on Fundamentals and Applications of Graphene

In the latest years, graphene based research has witnessed a tremendous explosion. This two dimensional "dream" material has come into the main spotlight of fundamental and applied research in diverse nano-science fields, but surprisingly rapidly, it has also attracted the interest of major stakeholders in the private sector (especially industries in the ICT sector). The technological exploitation of graphene can be considered to be based on four fundamental interconnected wide topics: growth and synthesis methods, nano-structuring and tailoring of graphene properties, structural and physical characterization, and device design and applications. This proceedings book presents the results highlighted at GraphITA 2011, a multidisciplinary and intersectorial European Workshop on Synthesis, Characterization and Technological Exploitation of Graphene. The workshop realised on 15-18 May at Gran Sasso National Laboratories (Assegi-L'Aquila, Italy) has brought together scientists and engineers working on different technological uses of graphene in a multidisciplinary and multisectorial (academia/industry) environment.

Contents: This book will collect about 40-50 contributed papers (4 manuscript pages each) selected among 120 contributed abstracts submitted to the GraphITA workshop to be held in Assergi (l'Aquila-ITALY), May 15-18 2011.

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