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# **Nanoscience Advances in CBRN Agent Detection, Information and Energy Security: An Introduction**

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## **Abstract**

The present volume comprises the most important contributions to the NATO ASI “Nanoscience advances in CBRN agent detection, information and energy security” held on 29.5.–6.6.2014 in Sozopol, Bulgaria. This short introduction aims to give an overview of the topics of the ASI and to relate them to the presently actual state of the art, but also to future fields of research in nanosciences and nanotechnology. Another aim of this introduction is to hint the reader to the most important contributions of these proceedings. Although nanotechnological products can presently be found in a wide range of application fields, in the ASI the topics were restricted to a number of fields which are related to the future well-being and safety of planet earth. This may sound exaggerated but the future of our planet will indeed rely on the ability to detect dangerous agents (chemical, biological and radionuclear = CBRN) as well as to provide a clean environment, health, and energy and information safety. With other words: The topics of this ASI are at the leading edge to solve many of the currently most important questions to be tackled by science and technology.