Semiconductor Nanowires: From Next-Generation Electronics to Sustainable Energy (RSC Smart Materials)

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Semiconductor nanowires were initially discovered in late 90's and since then there has been an explosion in the research of their synthesis and understanding of their structures, growth mechanisms and properties. The realisation of their unique electrical, optical and mechanical properties has led to a great interest for their use in electronics, energy generation and storage.

This book provides a timely reference on semiconductor nanowires including an introduction to their synthesis and properties and specific chapters focusing on the different applications including photovoltaics, nanogenerators, transistors, biosensors and photonics. This is the first book dedicated to Semiconductor Nanowires and provides an invaluable resource for researchers already working in the area as well as those new to the field.

Edited by leading experts in the field and with contributions from well-known scientists, the book will appeal to both those working on fundamental nanomaterial research and those commercially interested in their applications.

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