

## Issues and challenges in science education research: moving forward

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### Abstrak

This book addresses theoretical and practical examples in science education that, on the one hand, plays a key role in our understanding of the world, and yet, paradoxically, now acknowledges a growing number of uncertainties of knowledge about the world. The material is in four sections that cover the learning and teaching of science from science literacy to multiple representations, science teacher education, the use of innovations and new technologies in science teaching and learning, and science learning in informal settings including outdoor environmental learning activities.