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Research and Practice in Chemistry Education

Advances from the 25th IUPAC International Conference on Chemistry Education 2018

- Distils current topics in chemistry education research at both secondary and tertiary levels
- Features improved pedagogies and instructional resources for chemistry education as well as transferable teaching strategies
- Includes contributions from international leaders and emerging experts in the field from 10 different countries

This book brings together fifteen contributions from presenters at the 25th IUPAC International Conference on Chemistry Education 2018, held in Sydney. Written by a highly diverse group of chemistry educators working within different national and institutional contexts with the common goal of improving student learning, the book presents research in multiple facets of the cutting edge of chemistry education, offering insights into the application of learning theories in chemistry combined with practical experience in implementing teaching strategies. The chapters are arranged according to the themes novel pedagogies, dynamic teaching environments, new approaches in assessment and professional skills – each of which is of substantial current interest to the science education communities. Providing an overview of contemporary practice, this book helps improve student learning outcomes. Many of the teaching strategies presented are transferable to other disciplines and are of great interest to the global community of tertiary chemistry educators as well as readers in the areas of secondary STEM education and other disciplines.

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