Edited by Javier García-Martínez and Elena Serrano-Torregrosa

## Chemistry Education

Best Practices, Opportunities and Trends
With a Foreword by Peter Atkins



Javier García-Martínez, Elena Serrano-Torregrosa

Chemistry Education Javier García-Martínez, Elena Serrano-Torregrosa, 2015-05-04 Winner of the CHOICE Outstanding Academic Title 2017 Award This comprehensive collection of top level contributions provides a thorough review of the vibrant field of chemistry education Highly experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching as well as the pivotal role of chemistry for shaping a more sustainable future Adopting a practice oriented approach the current challenges and opportunities posed by chemistry education are critically discussed highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them The main topics discussed include best practices project based education blended learning and the role of technology including e learning and science visualization Hands on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively from experience chemistry professors to secondary school teachers from educators with no formal training in didactics to frustrated chemistry students **Chemistry Education** Javier García-Martínez, Elena Serrano-Torregrosa, 2015 Problems and Problem Solving in Chemistry Education Georgios Tsaparlis, 2021-05-17 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner Science **Education** Keith S. Taber, Ben Akpan, 2016-12-27 This book comprises a wide range of scholarly essays introducing readers to key topics and issues in science education Science education has become a well established field in its own right with a vast literature and many active areas of scholarship Science Education An International Course Companion offers an entry point for students seeking a sound but introductory understanding of the key perspectives and areas of thinking in science education Each account is self contained and offers a scholarly and research informed introduction to a particular topic

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professional development such as workload availability and time constraints and consider how we maintain the life long learning of chemistry teachers With a solid grounding in the literature and drawing on many examples from the authors rich experiences this book enables researchers and educators to better understand teachers roles in effective chemistry education and the importance of their professional development Contemporary Pioneers in Teaching and Learning Volume 2 Héfer Bembenutty, 2022-02-01 This volume traces the socialization process professional development career paths and theory and research of contemporary pioneers in education and psychology This volume contains interviews with leading scholars who are at the vanguard of teaching and learning They shared how their childhood development influenced their theoretical paths and research endeavors and revealed their thoughts beliefs and experiences that made them who they are today These scholars responded to questions pertaining to their childhood initial interest in education and psychology role models research interests and major findings future directions of their research educational implications derived from their research and perception of their legacy They are real people who have had experiences like anybody else but found homes and teachers who supported them While in college they found educators who mentored them Readers will find that this volume offers them an opportunity to learn the background of contemporary pioneers in education and psychology provides valuable sources where they can learn about how major theories developed and where they are moving and reveals the personal anecdotes that influenced the conceptualization of contemporary theories and research Educators and students will find that this book provides hope and a rejuvenated enthusiasm about the status of education and psychology and that they too can be Teaching Chemistry in Higher Education Michael Seery, Claire Mc Donnell, 2019-07-01 leaders in their own ways Teaching Chemistry in Higher Education celebrates the contributions of Professor Tina Overton to the scholarship and practice of teaching and learning in chemistry education Leading educators in United Kingdom Ireland and Australia three countries where Tina has had enormous impact and influence have contributed chapters on innovative approaches that are well established in their own practice Each chapter introduces the key education literature underpinning the approach being described Rationales are discussed in the context of attributes and learning outcomes desirable in modern chemistry curricula True to Tina s personal philosophy chapters offer pragmatic and useful guidance on the implementation of innovative teaching approaches drawing from the authors experience of their own practice and evaluations of their implementation Each chapter also offers key guidance points for implementation in readers own settings so as to maximise their adaptability Chapters are supplemented with further reading and supplementary materials on the book s website overtonfestschrift wordpress com Chapter topics include innovative approaches in facilitating group work problem solving context and problem based learning embedding transferable skills and laboratory education all themes relating to the scholarly interests of Professor Tina Overton About the Editors Michael Seery is Professor of Chemistry Education at the University of Edinburgh and is Editor of Chemistry Education Research and Practice Claire Mc Donnell is Assistant Head of

School of Chemical and Pharmaceutical Sciences at Technological University Dublin Cover Art Christopher Armstrong University of Hull International Perspectives on Science Education for the Gifted Keith S Taber, Manabu Sumida, 2016-04-28 In the spirit of encouraging international dialogue between researchers and practitioners often working within isolated traditions this book discusses perspectives on science education for the gifted informed by up to date research findings from a number of related fields The book reviews philosophy culture and programmes in science education for the gifted in diverse national contexts and includes scholarly reviews of significant perspectives and up to date research methods and findings The book is written in a straightforward style for students studying international perspective modules on undergraduate but especially masters and doctoral degrees in Science Education and Gifted Education Gifted education has come to be regarded as a key national programme in many countries and gifted education in science disciplines is now of major importance to economic and technological development Despite these national initiatives and developments there are very few discussions on gifted education in science from international perspectives This will be a valued addition to the scholarship in this emergent field

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