

Edited by
Javier García-Martínez and Elena Serrano-Torregrosa

Chemistry Education

Best Practices, Opportunities and Trends

With a Foreword by Peter Atkins



Chemistry Education Best Practices Opportunities And Trends

Javier García-Martínez, Elena Serrano-Torregrosa



Chemistry Education Best Practices Opportunities And Trends:

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 Tsaparis, 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

theme or perspective with both citations to key literature and recommendations for more advanced reading Science Education An International Course Companion allows readers such as those preparing for school science teaching or seeking more advanced specialist qualifications to obtain a broad familiarity with key issues across the field as well as guiding wider reading about particular topics of interest The book therefore acts as a reader to support learning across courses in science education internationally The broad coverage of topics is such that that the book will support students following a diverse range of courses and qualifications The comprehensive nature of the book will allow course leaders and departments to nominate the book as the key reader to support students their core course companion in science education

Science Education in Theory and Practice Ben Akpan,Teresa J. Kennedy,2025-04-26 This book addresses the critical role of science education in the context of global growth and development emphasizing its significance in the advancement of societal progress The book identifies and explores the lack of comprehensive resources compiling diverse learning theories and their practical applications in science teaching Tailored for a global audience it bridges the knowledge gap with a narrative genre offering a cohesive exploration of fundamental theories and applications With contributors from 14 countries this edition goes beyond its predecessor delivering updated insights across chapters in research pedagogy and educational theory Each chapter enriches the reader s experience with exercises and reflections fostering deeper engagement Notably the second edition responds to the evolving educational landscape introducing Chapter 28 on Virtual Technology in the wake of the COVID 19 pandemic This book is an invaluable resource for students educators and researchers interested in science education providing a comprehensive exploration of updated theories and practices

Research in Chemistry Education Liliana Mammìno,Jan Apotheker,2021-05-17 This volume emphasizes the role of chemical education for development and in particular for sustainable development in Africa by sharing experiences among specialists across the African continent and with specialists from other continents It considers all areas and levels of chemistry education gives specific attention to known major challenges and encourages explorations of novel approaches The chapters in this book describe new teaching approaches approach explorations and in class activities analyse educational challenges and possible ways of addressing them and explore cross discipline possibilities and their potential benefits for chemistry education This makes the volume an up to date compendium for chemistry educators and educational researchers worldwide

Professional Development of Chemistry Teachers Rachel Mamlok-Naaman,Ingo Eilks,George Bodner,Avi Hofstein,2018-05-08 Continuous professional development of chemistry teachers is essential for any effective chemistry teaching due to the evolving nature of the subject matter and its instructional techniques Professional development aims to keep chemistry teaching up to date and to make it more meaningful more educationally effective and better aligned to current requirements Presenting models and examples of professional development for chemistry teachers from pre service preparation through to continuous professional development the authors walk the reader through theory and practice The authors discuss factors which affect successful

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 leaders in their own ways

Teaching Chemistry in Higher Education Michael Seery,Claire Mc Donnell,2019-07-01 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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for the nitration 4.01 ml of nitric acid 4.00 ml of sulfuric acid and 4.56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4.56 ml of bromobenzene was used the amount of product predicted to be recovered was 8.7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction especially nitration of methyl benzoate to give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric

acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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then actual is your actual findings yield actual theoretical $\times 100$ what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 °C

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1-bromo-4-nitrobenzene

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study with quizlet and memorize flashcards containing terms like reacting sulfuric and nitric acid together produces the nitronium ion alone nitric acid is not a strong enough electrophile to react with bromobenzene sulfuric acid is added to the nitric acid the reverse rxn can overheat and boil easily includes a claisen adaptor and

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture HNO_3 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0.6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion NO_2^+ which acts as the electrophilic species

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