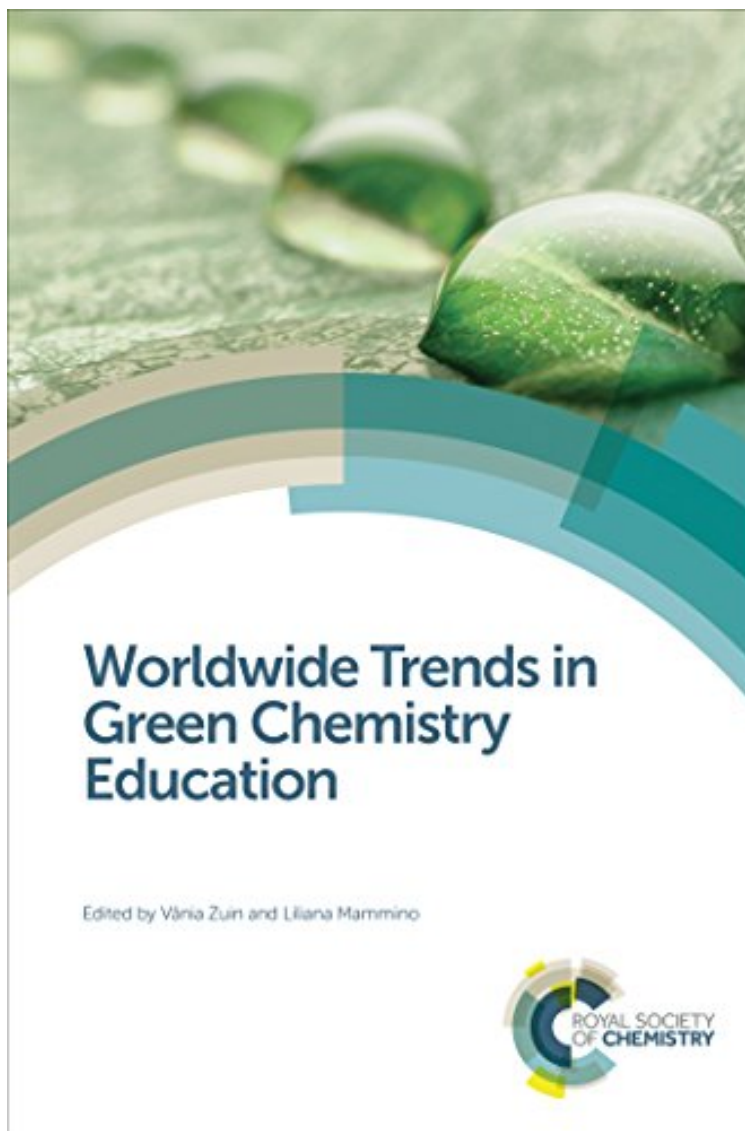


(Pdf free) Worldwide Trends in Green Chemistry Education

Worldwide Trends in Green Chemistry Education

From Royal Society of Chemistry
*ebooks | Download PDF | *ePub | DOC | audiobook*



 Download

 Read Online

#3702545 in eBooks 2015-06-01 2015-06-01 File Name: B017UL96GK | File size: 27.Mb

From Royal Society of Chemistry : Worldwide Trends in Green Chemistry Education before purchasing it in order to gauge whether or not it would be worth my time, and all praised Worldwide Trends in Green Chemistry Education:

Educating the next generation of chemists about green chemistry issues, such as waste minimisation and clean synthesis, is vital for environmental sustainability. This book enables green issues to be taught from the underlying

principles of all chemistry courses rather than in isolation. Chapters contributed by green chemistry experts from across the globe, with experience in teaching at different academic levels, provide a coherent overview of possible approaches to incorporate green chemistry into existing curriculums. Split into three sections, the book first introduces sustainability and green chemistry education, before focussing on high school green chemistry education initiatives and green chemistry education at undergraduate and post-graduate levels. Useful laboratory experiments and in-class activities to aid teaching are included. This book is a valuable resource for chemical educators worldwide who wish to integrate green chemistry into chemical education in a systematic and holistic way. It is also of interest to anyone wanting to learn more about the different approaches adopted around the world in sustainability education.

From the Back Cover Educating the next generation of chemists about green chemistry issues, such as waste minimisation and clean synthesis, is vital for environmental sustainability. This book enables green issues to be taught from the underlying principles of all chemistry courses rather than in isolation. Chapters contributed by green chemistry experts from across the globe, with experience in teaching at different academic levels, provide a coherent overview of possible approaches to incorporate green chemistry into existing curriculums. Importantly, green chemistry is placed in the context of broader sustainability developments and useful laboratory experiments and in-class activities to aid teaching are included. Furthermore, the connections between the general objectives of green chemistry education and the design of pedagogical options are highlighted throughout enabling readers to design personalised options most apt for their own context. The contents are split into three sections. The first introduces sustainability and green chemistry education, explores the meaning of sustainable development and provides an overview of different models to integrate sustainability with chemistry education. The second and third parts focus on high school green chemistry education initiatives and green chemistry education at undergraduate and post-graduate levels. This book is a valuable resource for chemical educators worldwide who wish to integrate green chemistry into chemical education in a systematic and holistic way. It is also of interest to anyone wanting to learn more about the different approaches adopted around the world in sustainability education.

About the Author James H Clark is Professor of Chemistry and Director of the Green Chemistry Centre of Excellence, The University of York, UK. He has led the green chemistry movement in Europe for the last 15 years and was the first scientific editor of the journal *Green Chemistry* and is Editor-in-chief of the RSC Green Chemistry book series. Peter Rudolf Seidl - Professor, Graduate Program on Technology of Chemical and Biochemical Processes, EQ/UFRJ (TPQB/EQ/UFRJ), and responsible for the establishment of the Brazilian Green Chemical School (EBQV). Thesis advisor and project coordinator in physical organic chemistry applied to chemical process areas such as petroleum, pharmaceuticals, mineral technology, etc., publishing widely in these areas and holding an international patent on the use of cashew wastes as a raw material. Former President of the Brazilian Chemical Association (ABQ) and active in the organization of meetings and workshops, such as the 1st International Conference on Chemistry of the (held shortly after Rio 92) and, more recently, the 1st Workshop on Asphaltenes Characterization and Properties held in 2009 and Biorefineries 2010 Recent Advances and New Challenges, held last November.