

Molecules That Amaze Us Tayl01 13 06 2019 By Paul May Simon Cotton

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"Pressestimmen "This fascinating book presents intriguing facts about a huge range of compounds. ... The information is provided in bite-sized chunks as the answers to questions. This makes it easy to read, as you don't have to start at the beginning. You can dip in wherever you like and you are sure to find something intriguing or (as the title says) amazing. ... I will leave you to browse and discover all the nuggets of fascinating chemistry - you will be amazed.'--**Anne Hodgson**, from *Chemistry Review*, February 2016 '... a wonderful and easy-to-read book that would be of interest to a wide audience, ranging from chemistry faculty to high school teachers to anyone who is simply interested in learning about a variety of molecules that have impacted the human condition. ... The examples presented in this book provide a wealth of educational material that relate both molecules, and many of the principles of chemistry, to a wide variety of contextual situations of interest to the general public. ... Each chapter's information is presented through a storyline of multiple sections that are introduced with a question that is followed by an answer. ... Not only do the authors use this Q&A style to chunk the material in an easily understood manner, but they are also able to use it to present the underlying concepts of complicated multifaceted topics in a neutral manner.

In its entirety, *Molecules That Amaze Us* is a trove of facts and exemplars for a wide variety of chemicals that could be useful to many members of the JCE readership. ... The Q&A format with extensive use of images allows the novice to follow the material without getting bogged down in the details. ... I think educators would also find the Q&A format of this book to have some advantages over the more traditional encyclopedia-style format of presenting information, in that they can navigate the material based on the questions, and not statements of facts. That is, getting students to think is more than stating some basic facts, and with this book, you can quickly choose a chemical, browse through a bunch of questions, and potentially find concepts that would interest your students.'--**Robert E. Belford**, Department of Chemistry, University of Arkansas at Little Rock, USA, from *Journal of Chemical Education*, January 25, 2016 'Molecules are everywhere, both inside us and out, but they are more than just common.

The ones you will find in *Molecules that Amaze Us* are incredible. The stories behind many molecules in this book can provide teachers with dozens of fantastic examples on a multitude of topics--or just catch students' attention--in chemistry and biology lessons.

Molecules that Amaze Us is an engaging book that provides a balanced mix of entertainment and education.'--Jose Viosca, in *Science and School* 'In 67 chapters, the authors describe more than that many chemicals, arranged in alphabetical order from ATP to water (the most amazing chemical of all). Even experienced chemists will find much new information here. Recommended for all readers, high school age and up.'--**R. E. Buntrock**, formerly University of Maine, in *CHOICE* 'The authors strike a good mix

in their use of historical content and pop culture references, using famous names to illustrate the compounds' origin and history. For chemistry-savvy readers...the book is an enjoyable, easy-to-digest collection of fascinating molecules to dip in and out of.'--**Katrina Krämer**, in *Education in Chemistry* 'This is truly a wonderful book...

Molecules that amaze us is a treasure trove of chemistry that can be read by anyone. May and Cotton write in an easy style and with humour, and while I knew a lot about the molecules within its pages, for almost every one I came across pieces of information, which had me saying 'I didn't know that'. Save up and buy yourself a copy.'--**John Emsley**, in *Popular Science*, April 2016. Über den Autor und weitere Mitwirkende **Paul May** is a professor of physical chemistry at the University of Bristol, where he obtained his PhD. He leads a research group that studies the fabrication of thin films of artificial diamond. He has been awarded both a Ramsay Memorial Fellowship and a Royal Society University Fellowship. He also received the RSC Higher Education teaching award for innovative use of IT in chemistry teaching. He has written nearly 200 scientific articles and currently maintains the Molecule of the Month website. **Simon Cotton** is an honorary senior lecturer in the School of Chemistry at the University of Birmingham, UK. Dr. Cotton obtained his BSc and PhD at Imperial College London. His research focuses on the chemistry of transition metals, particularly iron and cobalt, as well as scandium and the lanthanides. Dr. Cotton has published various peer-reviewed articles and five books on the chemistry of the d- and f-block elements. He has written a column titled 'Soundbite Molecules' for the magazine *Education in Chemistry*, and dozens of 'Chemistry in its Element' podcasts for the RSC's *Chemistry World* website. In 2005 he shared the Royal Society of Chemistry Schools Education Award. His book *Every Molecule Tells a Story* is also published by CRC Press."

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Simon cotton studied at imperial college london including research on the chemistry of iron followed by research and teaching at queen mary college london and the university of east anglia he then taught chemistry for over 30 years lectured widely in the uk a

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