DESCRIPTION

The Viologens Physicochemical Properties, Synthesis and Applications of the Salts of 4,4'-Bipyridine Paul M. S. Monk Manchester Metropolitan University, UK Viologens are salts of 4,4'-bipyridine and are used in such fields as herbicides, electrochromism, solar energy conversion, molecular electronics and supramolecular chemistry. The Viologens is a comprehensive overview of the nature and physicochemical properties of the viologens and details the science behind the applications. Following a broad, discursive and self-contained introduction to viologen chemistry, subsequent chapters develop the theory and present a detailed review of the most important properties and concepts in this field. A chapter on viologen synthesis is also included. This book is aimed at researchers in physical and organic chemistry, physics, materials science, biology and environmental engineering.

ABOUT THE AUTHOR

Paul M. S. Monk received his PhD in the electrochemistry of novel electrochromic viologen species at Exeter University in 1989. A postdoctoral research fellow position (1989-91) at the University of Aberdeen, in Scotland, was followed by lecturing positions in Physical Chemistry at Manchester Polytechnic (1991-2) then Manchester Metropolitan University (1992-2007). He is currently employed as a Vicar in an inner-city parish in Oldham, Greater Manchester, UK.
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