Additions and Corrections

Determination by High Field NMR Spectroscopy of the Longitudinal Electron Relaxation Rate in Cu(II) Plastocyanin from *Anabaena variabilis* [*J. Am. Chem. Soc.* **2000**, *122*, 7823−7824]. LIXIN MA AND JENS J. LED*

Page 7823, column 1: The equal sign after R_{1p} is missing in eq 1; it should read as follows:

$$R_{1p} = \frac{2}{5}\left(\frac{\mu_0}{4\pi}\right)^2 S(S+1) g_e^2 \mu_B^2 \gamma_I^2 \Delta^2 \left[\frac{\tau_{c,1}}{1+\omega_I^2 \tau_{c,1}^2}\right] \quad (1)$$

JA0046564

10.1021/ja0046564
Published on Web 08/31/2000

Book Reviews *

Supercritical Fluid: Methods and Protocols. Methods in Biotechnology 13. Edited by John R. Williams (Sultan Qaboos University, Sultanate of Oman) and Anthony A. Clifford (School of Chemistry, Leeds, UK). Humana Press: Totawa, NJ. 2000. xiv + 256 pp. $99.50. ISBN 0-89603-571-9.

In 32 chapters, this book presents detailed accounts and step-by-step procedures for conducting a variety of experiments using supercritical fluids. Examples include chapters on extracting drugs of abuse from human hair and on analyzing shark liver oil using thin-layer and supercritical fluid chromatography. Each chapter begins with an introduction to the technique and experiment to be conducted and contains a materials and methods section that describes the necessary equipment and gives detailed instructions for executing the procedure. A notes section that offers tips and solutions to common problems completes each chapter.

JA004764Q

10.1021/ja004764q

Chemistry, Society and Environment: A New History of the British Chemical Industry. Edited by Colin A. Russell (The Open University, Milton Keynes). Royal Society of Chemistry: Cambridge. 2000. xvi + 372 pp. £59.50. ISBN 0-85404-599-6.

This book tells the story of the development of the British chemical industry in the context of its effects, both environmentally and sociologically, on British society. The goal was to write a fair and objective history of the evolution of the chemical industry in the UK, without either glorifying or vilifying it. However, as the editor states in the preface, "with our attempts to depict things as they really were, 'warts and all', the industry emerges with a far better image than it popularly 'enjoys' today." Still, he contends, history has a lot to teach us. Although the book does contain some chemical terminology, it is still readable to the nonchemist and should appeal to anyone interested in the social and environmental impact of the chemical industry.

JA004768V

10.1021/ja004768v

Small Ring Compounds in Organic Synthesis VI. Topics in Current Chemistry 207. Edited by Armin de Meijere (Institut für Organische Chemie der Georg-August-Universität). Springer-Verlag: Berlin. x + 230 pp. $154.00. ISBN 3-540-66471-8.

The contents of this book encompass a broader array of topics than the title suggests. The first chapter, "Cyclopropane Derivatives and their Diverse Biological Activities", by J. Salaün, covers a wide range of subjects from enzymatic oxidation and nucleophilic substitution to phytotoxicity, phytohormones, and neurochemical activities. The second chapter, "Transition Metal Promoted Ring Expansion of Alkynyl- and Propadienylcyclopropanes", by N. Iwasawa and K. Narasaka, on the other hand, focuses on a smaller range of subjects, with heavy emphasis on a Pauson−Khand reaction in which substituted cyclopropanes are expanded to 2-cyclopenten-1-ones. The use of this reaction involves stereocontrol and allows for the application of such catalysts as $Co_2(CO)_8$ to the process.

A. de Meijere, S. I. Kozhushkov, and A. F. Khlebnikov thoroughly cover the bicyclopropylidene system in Chapter 3, "Bicyclopropylidene−A Unique Tetrasubstituted Alkene and a Versatile C_6 Building Block". In this chapter are discussed the methods of preparation, spectra, bonding physical properties, and thermochemical data of bicyclopropylidenes, as well as their use in ring anelations, thermal rearrangements, Diels−Alder and other cycloaddition reactions, reactions with 1,3-dipoles, electrophiles, free radicals, and carbenes, and Ni- and Co-promoted reactions.

The final chapter, "Alkyl 2-Chloro-2-cyclopropylideneacetates−Remarkably Versatile Building Blocks for Organic Synthesis", by A. de Meijere, S. I. Kozhushkov, and L. P. Hadjiarapoglou, covers the syntheses of the title compounds as well as their reactions involving carbene reagents, Diels−Alder reactions, Michael additions, and nucleophilic attack by chloride. A discussion of the use of these compounds to prepare carbocycles and heterocycles, peptidomimetics, spiranes and tricylic compounds is also included.

In summary, this book presents a very extensive survey that should be of significant value to researchers in the area of cyclopropane chemistry.

Terence C. Morrill, *Rochester Institute of Technology*

JA004713T

10.1021/ja004713t

*Unsigned book reviews are by the Book Review Editor.