

## Additions and Corrections

**Longithorone A: Unprecedented Dimeric Prenylated Quinone from the Tunicate *Aplidium longithorax*** [*J. Am. Chem. Soc.* **1994**, *11*, 12125–12126]. XIONG FU, M. BILAYET HOSSAIN, DICK VAN DER HELM,\* AND FRANCIS J. SCHMITZ\*

The spelling of the genus name in the title and text should be *Aplidium*, not *Aplyidium*.

JA9550236

**Energy Transfer in Rigidly-Linked Heterodinuclear Ru(II)/Fe(II) Polypyridyl Complexes: Distance and Linkage Dependence** [*J. Am. Chem. Soc.* **1995**, *117*, 5881–5882]. S. L. LARSON, S. M. HENDRICKSON, S. FERRERE, D. L. DERR, AND C. MICHAEL ELLIOTT\*

Page 5881, the first sentence of the third paragraph should read as follows: Molecular mechanics calculations were conducted employing Biograf<sup>3</sup> software on all of the dinuclear Fe–Fe and Ru–Fe complexes.

Page 5881, footnote 3 should read as follows: The Dreiding force field was employed (Mayo, S. L.; Olafson, B. D.; Goddard, W. A. *J. Phys. Chem.* **1990**, *94*, 8897). Partial charges were obtained using QEq (Rappé, A. K.; Goddard, W. A. *J. Phys. Chem.* **1991**, *95*, 3358). Annealed dynamics was used as the conformational searching procedure (Castonguay, L. A.; Rappé, A. K. *J. Am. Chem. Soc.* **1992**, *114*, 5832).

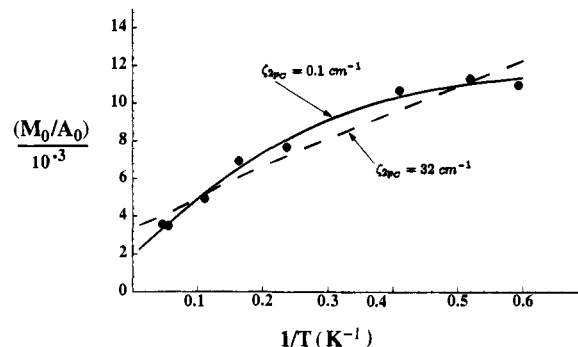
JA955024Y

**Analysis of the Jahn–Teller Effect in Matrix Isolated Cyclooctatetraene Mononegative Ion Using Magnetic Circular Dichroism Spectroscopy** [*J. Am. Chem. Soc.* **1994**, *116*, 11109–11119]. CINDY SAMET,\* JANNA L. ROSE, SUSAN B. PIEPHO,\* JOSEPH LAURITO, LESTER ANDREWS, AND PAUL N. SCHATZ\*

Professor David F. Bocian has pointed out to us that the spin–orbit coupling constant we used ( $\zeta_{2p_C} = 32 \text{ cm}^{-1}$ ) is inappropriate for a planar  $\pi$ -electron system because, as first shown by

McClure,<sup>1</sup> both one- and two-center spin–orbit terms are zero in that case. Thus a much smaller value of  $\zeta_{2p_C}$  is appropriate. We have therefore refit our moment data allowing  $\zeta_{2p_C}$  to vary. Approximately equally good best fits were obtained for a  $\zeta_{2p_C}$  value anywhere in the range 0–0.2  $\text{cm}^{-1}$ . The fit for  $\zeta_{2p_C} = 0.1 \text{ cm}^{-1}$  is shown by the solid line in our new Figure 5. This fit is seen to be distinctly better than our previous fit using  $\zeta_{2p_C} = 32 \text{ cm}^{-1}$  (dashed line). The resulting changes in ground state parameters are as follows:  $\lambda_{JT}(\text{new}) = 1.30 \text{ vs } \lambda_{JT}(\text{old}) = 1.59$ ;  $\Delta(\text{new}) = 4.4 \text{ cm}^{-1} \text{ vs } \Delta(\text{old}) = 13.5 \text{ cm}^{-1}$ ;  $E_{JT}(\text{new}) = 964 \text{ cm}^{-1} \text{ vs } E_{JT}(\text{old}) = 1442 \text{ cm}^{-1}$ . Thus the crystal field splitting ( $\Delta$ ) is significantly smaller and the Jahn–Teller splitting is about 1.7 rather than 2.5 times the zero-point energy so that each  $\text{COT}^-$  is less strongly trapped in one of the two Kekule-like structures than previously calculated. These changes have no effect on our calculation of excited state properties.

We thank Professor Bocian for pointing out this error and acknowledge helpful correspondence with Professor D. S. McClure.



**Figure 5.** Ratio of zeroth MCD and absorption moments vs  $1/T$ . The filled circles are the experimental points, and the solid and dashed curves are respective best fits using  $\zeta_{2p_C} = 0.1$  and  $32 \text{ cm}^{-1}$ , respectively.

(1) McClure, D. S. *J. Chem. Phys.* **1952**, *20*, 682–686.

JA955022D

## Book Reviews \*

**Taxane Anticancer Agents: Basic Science and Current Status.** Edited by Gunda I. Georg (University of Kansas), Thomas T. Chen (University of Tennessee), Iwao Ojima (State University of New York at Stony Brook), and Dolatra M. Vyas (Bristol-Myers Squibb PRI). American Chemical Society: Washington, DC, 1994. xiii + 353 pp. \$99.95. ISBN 0-8412-3073-0.

ACS Symposium Series No. 583. Developed from a symposium sponsored by the Division of Chemical Health and Safety, Medicinal Chemistry, and Organic Chemistry at the 207th National Meeting of the American Chemical Society, San Diego, CA, March 13–17, 1994.

JA955276Z

**Allelopathy: Organisms, Processes, and Applications.** Edited by Inderjit (University of Delhi), K. M. M. Dakshini (University of Delhi), and Frank A. Einhellig (Southwest Missouri State University). American Chemical Society: Washington, DC, 1994. x + 381 pp. \$99.95. ISBN 0-8412-3061-7.

ACS Symposium Series No. 582. Developed from a symposium sponsored by the Botanical Society of America Section of the American Institute of Biological Sciences, Ames, IA, August 1–5, 1993.

JA955270+

\*Unsigned book reviews are by the Book Review Editor.

**Modeling the Hydrogen Bond.** Edited by Douglas A. Smith (University of Toledo). American Chemical Society: Washington, DC, 1994. x + 300 pp. \$74.95. ISBN 0-8412-2961-3.

ACS Symposium Series No. 569. Developed from a symposium sponsored by the Division of Computers in Chemistry at the 206th National Meeting of the American Chemical Society, Chicago, IL, August 22–27, 1993.

JA955279B

**Structure and Reactivity in Aqueous Solution: Characterization of Chemical and Biological Systems.** Edited by Christopher J. Cramer and Donald G. Truhlar (University of Minnesota). American Chemical Society: Washington, DC, 1994. ix + 438 pp. \$99.95. ISBN 0-8412-2980-5.

ACS Symposium Series No. 568. Developed from a symposium sponsored by the Division of Physical Chemistry at the 207th National Meeting of the American Chemical Society, San Diego, CA, March 13–18, 1994.

JA955272U

**Parallel Computing in Computational Chemistry.** Edited by Timothy G. Mattson (Intel Corporation). American Chemical Society: Washington, DC. 1995. viii + 222 pp. \$69.95. ISBN 0-8412-3166-4.

ACS Symposium Series No. 592. Developed from a symposium sponsored by the Division of Computers in Chemistry at the 207th National Meeting of the American Chemical Society, San Diego, CA, March 13–17, 1994.

JA955273M

**Molecular Action of Insecticides on Ion Channels.** Edited by J. Marshall Clark (University of Massachusetts). American Chemical Society: Washington, DC. 1995. x + 356 pp. \$99.95. ISBN 0-8412-3156-6.

ACS Symposium Series No. 569. Developed from a symposium sponsored by the Division of Agrochemicals at the 207th National Meeting of the American Chemical Society, San Diego, CA, March 13–17, 1994.

JA955274E

**Computer-Aided Molecular Design: Applications in Agrochemicals, Materials, and Pharmaceuticals.** Edited by Charles H. Reynolds (Rohm & Haas Co.), M. Katharine Holloway (Merck Research Laboratories), and Harold K. Cox (Zeneca Ag Products). American Chemical Society: Washington, DC. 1995. x + 428 pp. \$109.95. ISBN 0-8412-3160-5.

ACS Symposium Series No. 589. Developed from a symposium sponsored by the Division of Computers in Chemistry and the Division of Agrochemicals at the 207th National Meeting of the American Chemical Society, San Diego, CA, March 13–17, 1994.

JA955278J

**Interfacial Design and Chemical Sensing.** Edited by Thomas E. Mallouk (Pennsylvania State University) and D. Jed Harrison (University of Alberta). American Chemical Society: Washington, DC. 1995. xi + 338 pp. ISBN 0-8412-2931-7.

ACS Symposium Series No. 561. Developed from a symposium sponsored by the Division of Colloid and Surface Chemistry at the 206th National Meeting of the American Chemical Society, Chicago, IL, August 22–27, 1993.

JA9552712

**Synthesis and Chemistry of Agrochemical IV.** Edited by Don R. Baker (Zeneca Ag Products), Joseph G. Fenyas (Buckman Laboratories International, Inc.), and Gregory S. Basarab (DuPont). American Chemical Society: Washington, DC. 1995. xiv + 490 pp. \$129.95. ISBN 0-8412-3091-9.

ACS Symposium Series No. 584. Developed from a symposium sponsored by the Division of Agrochemicals of the American Chemistry Society.

JA955277R

**Vitrinite Reflectance as a Maturity Parameter: Applications and Limitations.** Edited by Prasanta K. Mukhopadhyay (Global Geoenergy Research Ltd.) and Wallace G. Dow (DGSI). American Chemical Society: Washington, DC. 1994. x + 294 pp. \$79.95. ISBN 0-8412-2994-5.

ACS Symposium Series No. 570. Developed from a symposium sponsored by the Division of Geochemistry, Inc., at the 206th National Meeting of the American Chemical Society, Chicago, IL, August 22–27, 1993.

JA9552757

**Transport Theory of Inhomogeneous Fluids.** Edited by Luidmila A. Pozhar (Cornell University). World Scientific: New Jersey. 1994. xi + 170 pp. \$53.00. ISBN 981-02-1750-1.

This book bridges the gap between statistical mechanical theories of strongly inhomogeneous fluids and the nonequilibrium behavior of such fluids. The author has brought together the nonequilibrium statistical mechanics of dense, strongly inhomogeneous fluids from the angle of the generalized Zwanzig–Mori projection operator method.

JA955216T

**Roth Collection of Natural Products Data—Concise Descriptions and Spectra.** Edited by Lutz Roth and Gabriele Rupp. VCH: New York. 1995. 500 pp. \$190.00. ISBN 3-527-28180-0.

This book contains standardized descriptions of 75 natural products of plant origin. This unique and clear overview covers the complete spectroscopic and chromatographic data. Concise and comprehensive, this volume supplies information on the physical and chemical properties, location, toxicology, and risk potential of natural products. Chemical characteristics such as structural formulas and the most important spectra are included as well as illustrations of NMR, mass, and IR spectra. An annotated list of references follows each description.

JA9552196

**Annual Review of Biophysics and Biomolecular Structure, Volume 24.** Edited by Robert M. Stroud (University of California—San Francisco), Wayne L. Hubbell (University of California—Los Angeles), and Wilma K. Olson (Rutgers, State University of New Jersey). Annual Reviews: San Jose, CA. 1995. x + 736 pp. \$62.00. ISBN 0-8243-1824-2.

The protein code, how protein molecules mediate their function, lies at the heart of biology. Studies of this central, yet elusive puzzle focus on the progression from sequence to structure, from structure to function, and on to modulation of function. This book covers pathways along the evolution of thinking about this essential problem. Questions in focus in this volume include the following: How do channels in the central nervous system that signal thought and memory react when neurotransmitters bind, how are these channels organized, and how can we design medication for mental disorder? What are the mechanisms of muscle contraction and of cell motility, and how is energy converted so efficiently in living cells? What constitutes the basis of hearing and vision? Which enzymes repair DNA and control DNA transcription and translations? And what types of systems track the motion of molecules in living cells?

JA955289C

**Solvent Crazing of Polymers.** Edited by A. L. Volynskii and N. F. Bakeev (Moscow State University). Elsevier: Amsterdam. 1995. xiii + 410 pp. \$250.00. ISBN 0-444-81848-0.

The problems related to crazing in polymers are of special interest to polymer scientists since only polymers display this universal phenomenon and no analogues are available for low-molecular-mass compounds. This book provides an up-to-date account of scientific advances in the area of solvent crazing. The principal features and stages of solvent crazing (craze nucleation, craze tip advance, craze thickening, and craze collapse at high strains) are described. The authors present information concerning the activities of Russian scientists in this area.

JA955221X

**Azeotropic Data, Part I and Part II.** Edited by Jurgen Gmehling, Jochen Menke, Jorg Krafczyk, and Ki Fischer. VCH: Weinheim, Germany. 1994. xl + 871 pp. ISBN 3-527-28671-3.

Azeotropic data and zeotropic information are essential for the optimal design and synthesis of distillation processes. These books highlight the best way to separate azeotropic systems using hybrid or specialized distillation processes such as pressure swing, azeotropic, or extractive distillation. This extensive two-volume compilation covers nearly all data currently available for binary and higher systems. The data for 18 800 systems involving approximately 1700 compounds have been evaluated, documented, and arranged according to molecular formula.

JA955228E

**Spectrophotometry Luminescence and Colour; Science and Compliance.** Edited by C. Burgess (Burgess Consultancy) and D. G. Jones (Scioptics Corporation). Elsevier: Amsterdam. 1995. viii + 439 pp. \$250.00. ISBN 0-444-81718-2.

This book contains papers presented at the Second Joint Meeting of the UV Spectrometry Group of the U.K. and the Council for Optical Radiation Measurements of the U.S. Topics included are compliance and validation in spectrophotometry, advances in spectrophotometric measurements, instrument manufacturers' approaches to compliance, advances in fluorescence techniques, and advances in spectrophotometry.

JA9552297