Additions and Corrections

Determination of the Zero-Field Splitting Constant for Proton NMR Chemical Shift Analysis in Metaquomyoglobin. The Dipolar Shift as a Structural Probe [J. Am. Chem. Soc. 1993, 115, 9754– 9762]. YUNG-HSIANG KAO AND JULIETTE T. J. LECOMTE

Page 9758: In Table 1, the fourth entry for Ile-101 should be HG2 and not HB2.

The observed chemical shifts of HD1 and HD2 of Leu-2 were inadvertently interchanged from the correct assignments (Cocco, M. J.; Kao, Y.-H.; Phillips, A. T.; Lecomte, J. T. J. *Biochemistry* **1992**, 31, 6481–6491). This adjustment renders the deviation between calculated and observed values for Leu-2 HD2 insignificant. The entry in Table 1 and all other references to Leu-2 as a deviating residue should be deleted.

Page 9762: Arg-62 should be replaced with Lys-62.

Updated supplementary material is available from the authors.

Book Reviews *

Structure and Bonding. Volume 79. Complexes, Clusters and Crystal Chemistry. By M. J. Clark, J. B. Goodenough, J. A. Ibers, C. K. Jorgenson, and D. M. P. Mingos. Springer-Verlag: Berlin and Heidelberg. 1992. viii + 388 pp. \$198.00. ISBN 0-387-55095-X.

This volume contains six independent articles covering a wide range of topics which are collected under the general heading of Complexes, Clusters and Crystal Chemistry. The price of the volume is high, but this seems, unfortunately, to be the way for this type of collective work. The first survey by Mingos *et al.*, entitled "Moments of inertia in

The first survey by Mingos *et al.*, entitled "Moments of inertia in cluster and coordination compounds", is a review detailing how moments of inertia can be used to study geometric and bonding problems in the title compounds. An introductory section considers general and simple geometries (cube, icosahedron, bipyramids, prism, antiprism). The review is instructive both to the reader to whom the topic is new and to those already initiated in the theory. It is well written and exemplified.

The Drillon *et al.* review, "Progress in polymetallic exchange-coupled systems; some examples in inorganic chemistry", opens with sections dealing with the theory of exchange-coupling and models available for understanding exchange phenomena. The main thrust of the article (understandably) is a survey of systems exhibiting exchange-coupling, *e.g.* perovskites, trirutile compounds, CsV_2O_5 , copper(II) phosphates, RuF₅, and Ba₂CaCuFe₂F₁₄.

The electrochemistry of metal carbonyl cluster compounds is an area that has needed overviewing, and this is supplied by Zanello in the article entitled "Stereochemical aspects associated with redox behavior of heterometal carbonyl clusters". Zanello has clearly presented the chemistry, grouping compounds according to nuclearity and framework geometry. With 201 references, this article should make invaluable reading for the majority of transition metal cluster chemists. The chapter is profusely illustrated with structural figures and cyclic voltammograms.

"Electronic structure and bonding in actinyl ions" by Denning (135 references) has developed from a series of lectures. An informative introduction to this article sets out the properties of actinyl ions and defines the aims of the article. Discussions of electronic structure are addressed from both experimental and theoretical standpoints and are followed by a more chemically biased section in which the MO_2^{2+} unit is again the focus of attention.

In an article entitled "A new approach to structural description of complex polyhedra containing polychalcogenide anions", Evian *et al.* attempt to develop a scheme by which many of the well-known polychalcogenide clusters are rationalized. Unfortunately, the chosen structural nomenclature does not, at first glance, lend itself to easy interpretation and its general utility is not immediately apparent. The approach is based on relatively subtle differences in solid state structural parameters and has a relatively small data set (27 references, latest being 1987).

The final article considers the "Crystal chemistry of inorganic nitrides" (Brese *et al.*) and is, as the authors state, a systematic review of the topic. It provides a straightforward and well illustrated and referenced (377 references) account and is accompanied by tabulated structural data. The review should provide a vital source of information for solid state and molecular cluster chemists.

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Food Phytochemicals for Cancer Prevention I. Fruits and Vegetables. ACS Symposium Series 546. II. Teas, Spices, and Herbs. ACS Symposium Series 547. Edited by Mou-Tuan Huang (Rutgers), Toshihiko Osawa (Nagoya University), Chi-Tang Ho (Rutgers), and Robert T. Rosen (Rutgers). American Chemical Society: Washington, DC. 1994. I: xii + 428 pp; \$99.95; ISBN 0-8412-2768-3. II: xii + 370 pp; \$89.95; ISBN 0-8412-2769-1.

This book was developed from a symposium sponsored by the Division of Agricultural and Food Chemistry at the 204th National Meeting of the American Chemical Society held on 23–28 August 1992 in Washington, DC. In Part I, after a preface by the editors, there are 34 chapters organized under the following headings: Perspectives; Sulfur-Containing Phytochemicals in Garlic and Onions; Limonoids and Phthalides; Phytochemicals from Fruits and Vegetables; Phytochemicals in Soybeans; and Micronutrients. There are author, affiliation, and subject indexes. In Part II, after a preface by the editors, there are 35 chapters organized under the following headings: Perspectives; Phytochemicals from Tea; Antioxidants; Phytochemicals in Tumeric and Ginger; Lignans; Licorice, Ginseng, and Other Medicinal Plants. There are author, affiliation, and subject indexes.

Polymers for Electronic and Photonic Applications. By C. P. Wong Academic Press: New York. 1993. xiv + 662 pp. \$93.50. ISBN 0-12-762540-2.

This book is divided into 15 chapters. The first chapter, by J. M. Shaw, offers an overview that focuses relatively heavily on polymers for integrated circuit processing (resists, planarization, and packaging), with a lighter treatment leant to active materials such as conductive and electrooptical polymers. The composition of this chapter represents to some extent the overall disposition of the book. Subsequent general chapters deal with microlithography (Reichmanis), dielectrics (two chapters: Monk and Soane; and Wight and Ors) and encapsulation (Wong). Specific polymers are discussed in chapters on polyimides (Satou and Makino), polyimidesiloxanes (Lee), and epoxy resins (Bauer). General thermoplastics (Funer and James) appear as a separate chapter. At this point, the focus of the book expands to include active materials: piezo and pyrolectrics (Davis); second- (Boyd) and third-order nonlinear optics (Kuzyk); optical interconnects and waveguides; and LB polymer film oligothiophene based structures (Rubner). A final chapter briefly discusses mechanical properties (Robinson).

For novices, the strength of this book lies in the material dealing with integrated circuit processing and technology. There is enough material and enough overlap of ideas and concepts between authors for the reader to develop a relatively informed picture of this domain of polymer

^{*}Unsigned book reviews are by the Book Review Editor.