

Catalysis in Application. Edited by S. D. Jackson, J. S. J. Hargreaves, and D. Lennon (University of Glasgow). Royal Society of Chemistry: Cambridge. 2003. x + 318 pp. \$229.00. ISBN 0-85404-608-9.

This book features a selection of papers presented at the International Symposium on Applied Catalysis held at the University of Glasgow in July 2003. Its main focus is on hydrogenation, deactivation, chiral catalysis, environmental catalysis, and catalyst deactivation. A sampling of the chapters includes "Modification of catalysis and surface reactions by surface carbon", "Enantioselectivity and catalyst morphology", and "Catalytic utilization of low-molecular alkanes". A subject index completes the book.

JA033601+
10.1021/ja033601+

The Porphyrin Handbook, Volumes 11–20. Edited by Karl M. Kadish (University of Houston), Kevin M. Smith (Louisiana State University), and Roger Guilard (Université de Bourgogne). Academic Press (an Imprint of Elsevier): Amsterdam. 2003. ca. 3500 pp. \$3500.00. ISBN 0-12-393220-3.

This valuable reference is the complement to *The Porphyrin Handbook, Volumes 1–10*, which was published in 1999 and covered the synthesis, chemistry, spectroscopy, and applications of porphyrins. The current work reviews topics not covered in the first set and includes the following volumes: (11) Bioinorganic and Bioorganic Chemistry; (12) The Iron and Cobalt Pigments: Biosynthesis, Structure, and Degradation; (13) Chlorophylls and Bilins: Biosynthesis, Synthesis, and Degradation; (14) Medical Aspects of Porphyrins; (15) Phthalocyanines: Synthesis; (16) Phthalocyanines: Spectroscopic and

Electrochemical Characterization; (17) Phthalocyanines: Properties and Materials; (18) Multiporphyrins, Multiphthalocyanines, and Arrays; (19) Applications of Phthalocyanines; and (20) Phthalocyanines: Structural Characterization. Each volume has a subject index, and the last includes a cumulative index.

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Comprehensive Coordination Chemistry II: From Biology to Nanotechnology. Volumes 1–10. Edited by Jon A. McCleverty (University of Bristol) and Thomas J. Meyer (Los Alamos National Laboratory). Elsevier: Amsterdam. 2003. ca. 7000 pp. \$5975.00. ISBN 0-08-043748-6.

This reference, which builds upon the first edition, covers major developments in coordination chemistry since the 1980s and emphasizes the importance and relevance of coordination chemistry to current trends in biology, materials science, and other areas at the forefront of scientific interest. It includes over 200 chapters, about 50 000 references, and covers over 15 000 chemical structures. The titles of the volumes are as follows: (1) Fundamentals: Ligands, Complexes, Synthesis, Purification and Structure; (2) Fundamentals: Physical Methods, Theoretical Analysis and Case Studies; (3) Coordination Chemistry of the s, p and f Metals; (4) Transition Metal Groups 3–6; (5) Transition Metal Groups 7 and 8; (6) Transition Metal Groups 9–12; From the Molecular to the Nanoscale: Synthesis, Structure and Properties; (8) Bio-Coordination Chemistry; (9) Applications of Coordination Chemistry; and (10) Cumulative Subject Index. An online version is also available.

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