

STRUCTURE AND BONDING 62

F. A. Cotton R. A. Walton

Metal-Metal Multiple Bonds in Dinuclear Clusters

G. Schmid

Developments in Transition Metal Cluster Chemistry

G. Gliemann H. Yersin

Spectroscopic Properties of the Quasi One-Dimensional
Tetracyanoplatinate(II) Compounds



Clusters

62 Structure and Bonding

Editors:

M. J. Clarke, Chestnut Hill

J. B. Goodenough, Oxford · J. A. Ibers, Evanston

C. K. Jørgensen, Genève · D. M. P. Mingos, Oxford

J. B. Neilands, Berkeley · G. A. Palmer, Houston

D. Reinen, Marburg · P. J. Sadler, London

R. Weiss, Strasbourg · R. J. P. Williams, Oxford

Clusters

With Contributions by

F. A. Cotton G. Gliemann G. Schmid

R. A. Walton H. Yersin

With 94 Figures and 18 Tables



Springer-Verlag
Berlin Heidelberg New York Tokyo

Editorial Board

Professor *Michael J. Clarke*, Boston College, Department of Chemistry, Chestnut Hill, Massachusetts 02167, U.S.A.

Professor *John B. Goodenough*, Inorganic Chemistry Laboratory, University of Oxford, South Parks Road, Oxford OX1 3QR, Great Britain

Professor *James A. Ibers*, Department of Chemistry, Northwestern University, Evanston, Illinois 60201, U.S.A.

Professor *Christian K. Jørgensen*, Dépt. de Chimie Minérale de l'Université, 30 quai Ernest Ansermet, CH-1211 Genève 4

Professor *David Michael P. Mingos*, University of Oxford, Inorganic Chemistry Laboratory, South Parks Road, Oxford OX1 3QR, Great Britain

Professor *Joe B. Neilands*, Biochemistry Department, University of California, Berkeley, California 94720, U.S.A.

Professor *Graham A. Palmer*, Rice University, Department of Biochemistry, Wiess School of Natural Sciences, P. O. Box 1892, Houston, Texas 77251, U.S.A.

Professor *Dirk Reinen*, Fachbereich Chemie der Philipps-Universität Marburg, Hans-Meerwein-Straße, D-3550 Marburg

Professor *Peter J. Sadler*, Birkbeck College, Department of Chemistry, University of London, London WC1E 7HX, Great Britain

Professor *Raymond Weiss*, Institut Le Bel, Laboratoire de Cristalochimie et de Chimie Structurale, 4, rue Blaise Pascal, F-67070 Strasbourg Cedex

Professor *Robert Joseph P. Williams*, Wadham College, Inorganic Chemistry Laboratory, Oxford OX1 3QR, Great Britain

ISBN 3-540-15731-X Springer-Verlag Berlin Heidelberg New York Tokyo
ISBN 0-387-15731-X Springer Verlag New York Heidelberg Berlin Tokyo

Library of Congress Catalog Card Number 67-11280

This work is subject to copyright. All rights are reserved, whether the whole or part of the material is concerned specifically those of translation, reprinting, re-use of illustrations, broadcasting, reproduction by photocopying machine or similar means, and storage in data banks. Under § 54 of the German Copyright Law here copies are made for other than for private use, a fee is payable to "Verwertungsgesellschaft Wort", Munich.

© Springer-Verlag Berlin Heidelberg 1985
Printed in Germany

The use of general descriptive names, trade marks, etc. in this publication, even if the former are not especially identified, is not to be taken as a sign that such names, as understood by the Trade Marks and Merchandise Marks Act, may accordingly be used freely by anyone.

Typesetting and printing: Schwetzingen Verlagsdruckerei GmbH, 6830 Schwetzingen, Germany
Bookbinding: J. Schäffer OHG, 6718 Grünstadt, Germany
2152/3140-543210

Table of Contents

Metal-Metal Multiple Bonds in Dinuclear Clusters F. A. Cotton, R. A. Walton	1
Developments in Transition Metal Cluster Chemistry. The Way to Large Clusters G. Schmid	51
Spectroscopic Properties of the Quasi One-Dimensional Tetracyanoplatinate(II) Compounds G. Gliemann, H. Yersin	87
Author Index Volumes 1-62	155