

PUBLISHED UNDER THE AUSPICES OF THE SOCIÉTÉ FRANÇAISE DE CHIMIE

New Journal of Chemistry

NOUVEAU
JOURNAL
DE CHIMIE

RECENT ADVANCES IN DI- AND POLYNUCLEAR CHEMISTRY

Guest Editor: Pierre BRAUNSTEIN
Université Louis Pasteur, Strasbourg, France

June-July 1988 N°6-7

Volume 12

CNRS / gauthier-villars

New Journal of Chemistry

VOLUME 12, NUMBER 6/7
JUNE/JULY 1988

Code NJCHES 12 (6-7) 305-720

EXCLU DU PRÉT

RECENT ADVANCES IN DI- AND POLYNUCLEAR CHEMISTRY

Guest Editor: Pierre BRAUNSTEIN

CONTENTS

P. Braunstein (Strasbourg, F)	305	<i>Foreword</i>
T. P. Fehlner (Notre Dame, USA)	307	<i>Metal-rich ferrero- and cobaltaboranes. Mimics of organometallic clusters,</i>
K. Shelly, C. B. Knobler, M. F. Hawthorne (Los Angeles, USA)	317	<i>Bridged metalla-bis-dicarbollides: structure of [10,10'-μ-(1,2-C₆H₄)-bis(7,8-C₂B₉H₁₀)₂]Co (1-) and synthesis of its iron analog.</i>
C. Perrin, S. Ihmaïne, M. Sergent (Rennes, F)	321	<i>Ternary and quaternary chlorides with (Nb₆Cl₁₈)ⁿ⁻ units in low valence niobium chemistry.</i>
P. Jernakoff, C. de Méric de Bellefon, G. L. Geoffroy (University Park, USA) A. L. Rheingold, S. J. Geib (Newark, USA)	329	<i>Stepwise formation of binuclear and trinuclear tantalum oxide clusters via hydrolysis of the metal chloride bonds in (η-C₅Mes) TaCl₄.</i>
A. Perrin, M. Sergent (Rennes, F)	337	<i>Rhenium clusters in inorganic chemistry: structures and metal-metal bonding.</i>
M. Herberhold, M. Kuhnlein (Bayreuth, FRG)	357	<i>Binuclear pentamethylcyclopentadienyl-vanadium complexes containing chalcogen bridges.</i>
R. T. Weberg, R. C. Haltiwanger, M. Rakowski DuBois (Boulder, USA)	361	<i>Structures and reactivities of isomeric forms of (CsH₅Fe)₂S₄.</i>
T. B. Rauchfuss, S. D. Gammon, T. D. Weatherill, S. R. Wilson (Urbana, USA)	373	<i>Localized structural effects in the heterometallic thiocubanes (MeCp)₂V₂M₂S₄(NO)₂ where M₂=Fe₂, Co₂, and Ni₂.</i>
A. Darchen, E. K. Lhadj, H. Patin (Rennes, F)	377	<i>Catalyse par transfert d'électron de la fragmentation d'un ligand dithiocarbonate dans des composés binucléaires du fer-carbonyle. Mise en évidence de la migration d'un carbone.</i>
T. M. Bockman, Y. Wang, J. K. Kochi (Houston, USA)	387	<i>Thermal activation of triiron carbonyl clusters Fe₃(CO)₉(μ₃-E)₂. Comparative pathways for ligand substitutions.</i>
K. H. Whitmire, J. S. Leigh, S. Luo, M. Shieh, M. D. Fabiano (Houston, USA) A. L. Rheingold (Newark, USA)	397	<i>The isolation and characterization of organoiron clusters containing four-coordinate antimony atoms: [Et₄N]₂[Fe₃(CO)₉(μ-CO){μ₃-SbFe(CO)₄}] and [Et₄N]₂[Fe₃(CO)₉{μ₃-SbFe(CO)₄}].</i>
J. T. Jaeger, A. K. Powell, H. Vahrenkamp (Freiburg, FRG)	405	<i>Reactivity of unsaturated clusters: expansion of Fe₄(CO)₁₁(PPh₃)₂ with CpRh(CO)₂.</i>
P. Ewing, L. J. Farrugia (Glasgow, UK)	409	<i>MO studies on the unsaturated triosmium-platinum cluster Os₃Pt(μ-H)₂(CO)₁₀(PCy₃) and the reaction with the inorganic carbene analogue SnCl₂. X-ray crystal structure of Os₃PtSn(μ-H)₂(CO)₁₀(Cl)(OEt₂)(SnCl₂)(PCy₃).</i>