Ref. 547.056 CHA

CONTENTS

The Copper and Zinc Triads in Biology	1
Electronic Structures of Active Sites in Copper Proteins: I. Blue Copper Sites	12
Structure and Activity of Type 1 Cu Sites	30
Bacterial Plasmid Resistances to Copper, Cadmium and Zinc	38
Metallothonein Genes from Synechococcus PCC6301 and PCC7942	54
Chemical and Physical Characteristics of Zinc-replete Biocomposites	58
The Analysis and Speciation of Mercury Compounds in the Natural Environment	62
AN INVETIGATION OF THE ZINC SITES OF HYDROLYTIC ENZYMES VIA A MODEL	
COMPOUND APPROACH	82
THE CHEMISTRY OF CADMIUM CHALCOGENIDE CLUSTERS [ECD8(E'R)16]2-	
[E4CD10(E'R)16]4- AND [E4CD17(E'R)28]2-	87
STRUCTURAL MIS-MATCHES IN SILVER AND GOLD COMPLEXES OF THIOETHER	
MACROCYCLES	95
GROUP 12 COMPLEXES OF TETRAKIS(2-AMINOETHYL)CYCLAM	102
COPPER(II) DIRECTED SYNTHESES OF PENDANT-ARM POLYAMINE MACROCYCLES AND	
THEIR CO-ORDINATION TO METALS IN THE ZINC TRIAD	106
STEREOSELECTIVE NITROSATIONS OF PENDANT AMINE SUBSTITED MACROCYCLIC	
COPPER(II) COMPLEXES	110
DISILVER(1) COMPLEXES OF PENDANT-ARM MACROCYCLES	113
MERCURY(II)-PHENOTHIAZINE COMPLEXES: SYNTHESIS AND CHARACTERIZATION	117
CHELATING PROPERTIES OF ACYLHYDRAZONES IN METAL COMPLEXES. AN UNEXPECTEI)
COPPER(II)-TRIAZOLOPYRIDINE COMPLEX	121
A SPIN-FRUSTRATED TRINUCLEAR AND A TETRANUCLEAR IMIDAZOLE-BRIDGED	
COPPER(II) COMPLEX; RELEVANCE TO MULTI-COPPER BIO-SITES	125
STRUCTURAL ASPECTS OF COPPER PYRAZOLATO COMPLEXES	129
LOW-COORDINATE CHALCOGENOLATO COMPLEXES OF ZINC, CADMIUM AND MERCURY	133
CYCLOHEXANETHIOLATO COMPLEXES OF MERCURY	137
MERCURY AND METHYLMERCURY COMPLEXES WITH THE TRIPOD LIGAND	
N(CH2CH2PPH2)3	141
PREPARATION AND USES OF NEW MERCURY, GOLD AND SILVER COMPOUNDS	145
BIS[BIS(TRIMETHLSILYL)METHL]ZINC – A VALUABLE SYNTHON TO STUDY THE	
FORMATION OF ZINCATES	148
LOW VALENT COIAGE METAL COORDINATION COMPOUNDS WITH TERTIARY	
PHOSPHINES AND THIONES	152
AN UNUSUAL COPPER(II) COMPLEX CONTAINING BOTH HALIDE AND PSEUDOHALIDE	

156
160
164
168
172
176
181
189
198
202
207
211
235
240
244
248
252
257