EPR studies of spin-spin interactions between Cu(II) centers in dimeric, hexameric and homo-and heteronuclear tetrameric complexes.

Autorzy

Julia Jezierska

Vladimir N. Kokozay

Andrew Ozarowski

Rok wydania

2007

Czasopismo

Research on Chemical Intermediates

Numer woluminu

33

Strony

901-914

DOI

10.1163/156856707782169381

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Applications of conventional (X-band), High-Field and High-Frequency EPR to study the nature of exchange interactions between Cu(II) centres in different homo- and hetronuclear systems are reviewed. The fine structure EPR spectra have been observed and analyzed in terms of spin-Hamiltonian parameters corresponding to $S \geq 1$ for different $[Cu_2(\beta\text{-alanine})_4Cl_2]Cl_2 \cdot H_2O$ dimeric complexes present in one unit cell, Cu(II) dimers possessing different conformations, dimeric species formed between Cu(II) ions and polyfunctional ligand in solution, Cu-Zn-Cu-Zn and Cu-Co-Cu-Co tetrameric heterometallomacrocycles, Cu_4O_4 cubane-like tetramers and for the chain Cu(II) hexamer.

Adres publiczny

https://doi.org/10.1163/156856707782169381

Strona internetowa wydawcy

http://www.elsevier.com