A strategy for new macrocycle magnetic materials synthesis.

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Rok wydania

2009

Czasopismo

Chemical Papers

Numer woluminu

63

Strony

306-312

DOI

10.2478/s11696-008-0098-8

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

A study of a series of new types of copper(II) and rhenium(IV) macrocyclic complexes, im-portant macrocyclic molecular magnets, is reported. A detailed description of crystal structureand magnetic behavior of mononuclear copper(II) macrocyclic compounds: CuL1(ClO4)2(L1=N-d-2,4,4,9,11,11-hexamethyl-1,5,8,12-tetraazacyclotetradeca-2,9-diene), CuL2(ClO4)2(L2=N-d-7,14-diisopropyl-5,12-dimethyl-1,4,8,11-tetraazacyclotetradeca-4,11-diene) and of heteropolynuclearcomplexes: [CuL1][ReCl4(ox)]·DMF and [(CuL2)(ox)ReCl4] is presented. The results indicate thatall compounds behave as weak interacting magnets.

Słowa kluczowe

eterobimetallic magnets, copper(II), nickel(II), and rhenium(IV) complexes, Magnetic behaviour

Adres publiczny

https://doi.org/10.2478/s11696-008-0098-8