

Metallacrown-based compounds : applications in catalysis, luminescence, molecular magnetism, and adsorption.

Autorzy

Małgorzata Ostrowska

Igor O. Fritsky

Elżbieta Gumienna-Kontecka

Anna V. Pavlishchuk

Rok wydania

2016

Czasopismo

Coordination Chemistry

Reviews

Numer woluminu

327-328

Strony

304-332

DOI

10.1016/j.ccr.2016.04.017

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Metallacrowns (MCs) obtained by changing the single bond[Csingle bondCsingle bondO]single bond fragments of organic crown ethers on single bond[Msingle bondNsingle bondO]single bond or single bond[Msingle bondNsingle bondN]single bond units have been developed extensively in the past few decades. A vast array of unique MCs with diverse structural patterns and accessible topologies can provide non-trivial functional properties. This review describes the applications of MCs in catalysis, luminescence, and magnetism. Examples of porous lattices based on MCs as secondary building units are also discussed, including their thermal stability, sorption properties, and applications in the separation or exchange of cations or anions.

Słowa kluczowe

Catalytic activity, luminescence, magnetic properties, metallacrown, Porosity

Adres publiczny

<http://dx.doi.org/10.1016/j.ccr.2016.04.017>

Strona internetowa wydawcy

<http://www.elsevier.com>