

ÖZET

N2O Tipi Ligand ile Metal Komplekslerinin Sentezi ve Yapılarının Aydınlatılması

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Bu çalışmada, 4-4'-Diamino-bibenzyl kullanıldı ve farklı bir aldehit olan β -hidroksi-1- naftaldehit ile reaksiyonundan yeni bir ligand 1,1'-(4-4'-(ethane-1,2-diyl)bis(4,1-phenylene))bis(azan-1-yl-1-ylidene)bis(methan-1-yl-1-ylidene)dinaphthalen-2-ol (HL) schiff bazı elde edilmiştir. Bir ligandın Ni(II), Zn(II) ve Cu(II) asetat tuzları ile 3 (üç) metal kompleksi sentezlendi. Sentezlenen yeni bileşiklerin yapıları; FT-IR, Elementel Analiz, ¹H-NMR, ¹³C-NMR, UV yöntemleri ve SEM ile aydınlatıldı. 1,1'-(4-4'-(ethane-1,2-diyl)bis(4,1-phenylene))bis(azan-1-yl-1-ylidene)bis(methan-1-yl-1-ylidene)dinaphthalen-2-ol ligandı ve bunun 3 (üç) yeni metal kompleksi sentezlenerek izole edilmiştir.

ABSTRACT

The synthesis and structure characterization of N2O type ligand with metal complexes

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In this study, 4-4'-Diamino-bibenzyl was used and a new ligand 1,1'-(4-4'-(ethane-1,2-diyl)bis(4,1-phenylene))bis(azan-1-yl-1-ylidene)bis(methan-1-yl-1-ylidene)dinaphthalen-2-ol (HL) schiff base was obtained from the reaction with β -hidroksi-1-naftaldehit, which is a different aldehyde. Ni(II), Zn(II) ve Cu(II) acetates of this ligand were synthesized with 3(three) metal complexes. The structures of the new compounds which were synthesized were lighted with the help of FT-IR, Elementel Analiz, ¹H-NMR, ¹³C-NMR, UV methods and SEM. 1,1'-(4-4'-(ethane-1,2-diyl)bis(4,1-phenylene))bis(azan-1-yl-1-ylidene)bis(methan-1-yl-1-ylidene)dinaphthalen-2-ol ligand and ve its 3 (three) new metal complexes were isolated by synthesizing.