
Synthesis, characterization and electrochemical behavior of new metallic complexes derivatives of -hydroxy-6-methyl-3-[(2E)-3-(4-(dimethyl-amino) phenyl) prop-2-enoyl]-2H-pyran-2-one

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ABSTRACT/RESUME

Abstract: The reaction of Ni (II) acetate, Co (II) chloride and copper (II) nitrate with 4-hydroxy-6-methyl-3-[(2E)-3-(4-(dimethylamino) phenyl)prop-2-enoyl]-2H-pyran-2-one leads to the formation of a series of new complexes. They have been characterized by spectroscopic studies: infrared, electronic spectra and elemental analysis. Electrochemical behavior of the complexes of (Cu, Ni) has been investigated by cyclic voltametry on glassy carbon electrode in DMF at 100 mV/s scan rate. This study indicates that the reduction process corresponding to Cu^{II}/Cu^I is electrochemically quasi-reversible in complex of copper, and irreversible reduction process for Ni^{II}/Ni^I.
