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Template synthesis and  
characterization of 16-membered  
octaazamacrocyclic complexes: a  
photoelectron spectroscopic study

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**Abstract:** A novel series of complexes of the type  $[MLX_2]$  where  $M = Mn(II), Co(II), Ni(II), Cu(II)$  and  $Zn(II)$ ;  $X = C^-$  or  $NO_3^-$  were synthesized by template condensation of hydrazine hydrate, acetaldehyde, 2,4-pentanedione, and thiocarbohydrazide in the presence of divalent metal salt in methanolic solution. The complexes were characterized with the help of elemental

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