

E0049

Exploring the Non Covalent Assembly Capabilities of Thiosemicarbazones and Their Coordination Compounds. P. X. García-Reynaldos, J. Valdés-Martínez, S. Hernández-Ortega, Inst. de Química, Univ. Nacional Autónoma de México, México DF, 04510, México.

Crystal engineering, synthesis and building of functional crystals, uses reliable interactions on constructing reproducible supramolecular motifs. Among these, π - π interactions and hydrogen-bonding have been studied, nevertheless its use in designing coordination compounds, is little extended. Thiosemicarbazones have interesting structural and biological properties; as ligands they form quelating rings that we hypothesized may present H-bonding interactions similar to those observed in 2-aminopyridines. We will present a systematic study of the intermolecular H-bonds formed by coordinated thiosemicarbazones as well as the joint use of π - π interactions, through the introduction of pyridine ligands, to organize in predictable way neutral square planar Ni (II) complexes into extended networks.

