

## New complexes of 6,6''-dimethyl-2,2':6',2''-terpyridine with Ni(II) ions: synthesis, structure and magnetic properties.

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77

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### Streszczenie

Complexation of 6,6''-dimethyl-2,2':6',2''-terpyridine ligand (**L**) with Ni(II) as metal centre resulted in formation of new coordination compounds of the following molecular formula: [NiLCl<sub>2</sub>] (**1**), [NiL(NO<sub>3</sub>)<sub>2</sub>] (**2**) and [NiL(H<sub>2</sub>O)<sub>3</sub>](ClO<sub>4</sub>)<sub>2</sub>·2H<sub>2</sub>O (**3**). X-ray crystallographic analysis revealed that synthesized complexes are monomeric, with coordination number and geometry varying in dependence to the applied counterion. Metallo-molecular systems were characterized by elementary analysis, spectral techniques (FT-IR, ESI-MS) and evaluated in terms of their magnetic properties.

### Słowa kluczowe

Terpyridine, Nickel(II) complexes, Magnetic properties, Crystal structures, Self-assembly

### Adres publiczny

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### Strona internetowa wydawcy

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