

## Attempts of synthesis of Hg(SCN)<sub>4</sub>-based coordination polymers in conjunction with [Cu(L-L)<sub>2</sub>]<sup>2+</sup> building blocks.

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### Streszczenie

Five novel heterobimetallic compounds [Cu(bpzm)<sub>2</sub>Hg(SCN)<sub>4</sub>]<sub>n</sub> (1), [Cu(bdmpzm)<sub>2</sub>(μ-SCN)Hg(SCN)<sub>3</sub>] (2), [Cu(pybzim)<sub>2</sub>(μ-SCN)Hg(SCN)<sub>3</sub>·H<sub>2</sub>O] (3), [Cu(bipy)<sub>2</sub>(μ-SCN)Hg(SCN)<sub>3</sub>] [Cu(bipy)<sub>2</sub>(μ-SCN)<sub>2</sub>Hg(SCN)<sub>2</sub>] (4) and [Cu(bipy)(NCS)]<sub>2</sub>[Hg(SCN)<sub>4</sub>] (5) have been synthesized and structurally characterized (bpzm-bis(pyrazol-1-yl)methane, bdmpzm-bis(3,5-dimethylpyrazol-1-yl)methane, pybzim-2-(2-pyridyl)benzimidazole, phen-1,10-phenantroline and bipy-2,2'-bipyridine). The compounds 2, 3, 4 and 5 are molecular complexes, whereas 1 is an alternating 1-D zigzag chain of [Cu(bpzm)<sub>2</sub>]<sup>2+</sup> and Hg(SCN)<sub>4</sub><sup>2-</sup> moieties in which the metal atoms are bridged via thiocyanate ions. The polymer 1 has been studied by magnetic measurement.

### Słowa kluczowe

Heterobimetallic coordination polymer, copper, mercury, Thiocyanate bridge, X-ray, magnetic measurements

### Adres publiczny

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### Strona internetowa wydawcy

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