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**Self-Assembly and Characterization of
Three-Dimensional Silver(I) Coordination Polymers
Containing
 N,N,N' -Tetrakis(pyridin-4-yl)methan
ediamine**

[Jong Won Shin](#)

Department of Chemistry, Kyungpook National University, Daegu 702-701, Republic of Korea

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[Kil Sik Min](#)

Corresponding Author

E-mail address: minks@knu.ac.kr

Department of Chemistry Education and Green Nano Materials Research Center,
Kyungpook National University, Daegu 702-701, Republic of Korea

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[Jong Won Shin](#)

Department of Chemistry, Kyungpook National University, Daegu 702-701, Republic of Korea

[Search for more papers by this author](#)

[Kil Sik Min](#)

Corresponding Author

E-mail address: minks@knu.ac.kr

Department of Chemistry Education and Green π - π Nano Materials Research Center,
Kyungpook National University, Daegu 702-701, Republic of Korea

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Abstract

Silver(I) coordination polymers, [Ag(tpmd)](NO₃)·2CH₃OH (**1**), [Ag(tpmd)](CF₃SO₃) (**2**), and [Ag(tpmd)](CF₃CO₂)·0.5CH₃OH (**3**), have been obtained by the self-assembly of AgX (X = NO₃, CF₃SO₃, CF₃CO₂) and N,N-tetrakis(pyridin-4-yl)methanedi-amine (tpmd) in MeOH/MeCN. The coordination geometries of silver(I) ions in **1** and **2** are distorted tetrahedral structures, while that of **3** is a distorted trigonal bipyramid. **1** and **2** feature three-dimensional coordination polymers formed by coordination of the silver(I) ions to the tpmd ligands. **3** shows two-dimensional network basically. However, the network of **3** can be considered three-dimensional structure by the weak axial bonding of the fourth pyridine group from another tpmd ligand. **1**–**3** display strong emissions at 331, 342, and 326 nm, respectively.

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```

```
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```