

# One-step Synthesis of Supramolecular Rectangles Starting from ( $\eta^5$ -Pentamethylcyclopentadienyl)rhodium(III) Aqua Complex

한원석, 이순원  
성균관대학교 이과대학 화학과

[Cp\*Rh(H<sub>2</sub>O)<sub>3</sub>](OTf)<sub>2</sub> (**1**) reacts with a stoichiometric amount of A and B [A = Me<sub>3</sub>SiN<sub>3</sub>, B = 4,4'-bipyridyl, (**2a**), A = Me<sub>3</sub>SiNCO, B = 4,4'-bipyridyl (**2b**)] in acetone at room temperature for 3 h to give the supramolecular complexes [Cp\*<sub>4</sub>Rh<sub>4</sub>( $\mu$ -A)<sub>4</sub>( $\mu$ -B)<sub>2</sub>] [A = Me<sub>3</sub>SiN<sub>3</sub>, B = 4,4'-bipyridyl, (**2a**), A = Me<sub>3</sub>SiNCO, B = 4,4'-bipyridyl (**2b**)]. Complexes **2a** and **2b** have been structurally characterized by X-ray diffraction.

