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Rim-functionalized Pillarplexes: Shape-Adaptive Metallocavitands via Modification of Macrocyclic NHC Ligands

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Rim-modified pillarplex cavitands are presented and structurally discussed. These supramolecular organometallic complexes (SOCs) are tubular-shaped complexes of the size of 1 nm, featuring a pore which allows for guest uptake. The modification of the organic ligand leads to the introduction of structural flexibility in the corresponding SOC. Additionally, complementary hydrogen bonding is enabled, leading to a sheet-wise self assembly of SOC as crystallographically determined in solid state.

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