

Synthesis and characterization of a cyclic bis-silver(I) assembly of four 2-aza-21-carbaporphyrinosilver(III) subunits.

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Streszczenie

Four-gone confusion! An assembly of four N-confused porphyrinosilver(III) subunits (see structure; N blue, Ag olive-colored, C silver/red) placed on the perimeter of a cyclic structure that comprises two silver(I) ions is effectively formed from a bis(N-confused porphyrin) free base and a silver(I) salt. Porphyrins and metalloporphyrins constitute a class of building blocks for the construction of multicomponent 2D and 3D molecular arrays that are being considered as possible biomimetic models, catalysts, or materials for the transport of charge, molecules, and ions. Covalent¹ as well as coordination linkages² have been exploited in the design of a variety of discrete porphyrin assemblies. Recently, special attention has been given to systems built up of directly linked porphyrins with strongly interacting aromatic subunits,³ which represent some of the most promising candidates for potential applications.

Adres publiczny

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