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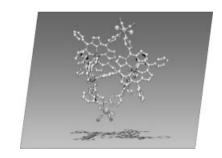
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COVER PICTURE

The cover picture shows the X-ray structure of an unprecedented supramolecular assembly comprising four porphyrins and six metal atoms (two Ru and four Zn); this very stable and symmetrical architecture was obtained by spontaneous self-assembly through four 4'-N(py)-Zn interactions of two equal bis(porphyrin)ruthenium self-complementary building blocks. The design of this and other robust and shape-persistent assemblies, obtained by coordination of meso-pyridylporphyrins to ruthenium, palladium and zinc centers, is comprehensively discussed in the microreview by E. Alessio et al. on p. 2371 ff. NMR spectroscopy and Xray crystallography were used jointly for the unambiguous characterization of the new species in solution and solid state, respectively. Very often the adducts of nanoscopic dimensions, in which the number, position, relative distance and orientation of the chromophores is well defined, were obtained through hierarchical supramolecular self-assembly: multi-porphyrin components were used as building blocks for the metal-mediated assembly of more elaborate architectures.



MICROREVIEW Contents

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Discrete Supramolecular Assemblies of Porphyrins Mediated by Coordination Compounds

Keywords: Porphyrins / Supramolecular chemistry / Self-assembly / Ruthenium / Building blocks

