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The adsorbate structure of ferrocene inside [Al(a powder X-ray diffraction study[†]

Mikhail Meilikhov, Kirill Yusenko and Roland A. Fischer*

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Ferrocene is strongly adsorbed by the highly porous metalorganic framework compound $[Al(OH)(bdc)]_x$ (MIL-53; bdc = 1,4-benzenedicarboxylate). The structure of the crystalline phase { $[Fe(\eta^5-C_5H_5)_2][Al(OH)(bdc)]_2$ }_x was determined by X-

5 ray powder diffraction and Rietveld methods. The ferrocene molecules are arranged in a 1D chain-like fashion and their cyclopentadienyl rings are oriented almost parallel to the O_3AI faces of the $\{AIO_6\}$ octahedra without π -stacking to the bdc.

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