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Title:	Modulation of hydrophilicity inside the cavity of molecular rectangles self-assembled under ambient conditions
Authors:	Khullar, S. (/jspui/browse?type=author&value=Khullar%2C+S.) Mandal, S.K. (/jspui/browse?type=author&value=Mandal%2C+S.K.)
Keywords:	Hydrophilicity Mass spectrometry Copper compounds Methanol Modulation X ray diffraction analysis
Issue Date:	2020
Publisher:	Royal Society of Chemistry
Citation:	Chemical Communications, 56(57), pp.7913-7916.
Abstract:	Three novel molecular rectangles of tetranuclear Cu(II) with a variation in the flexible methylene chain length on the two opposite sides have been synthesized from a one pot self-assembly reaction in a methanol–water mixture under ambient conditions. Their solid state molecular structures are determined by single crystal X-ray diffractometry, while their structural integrity in the solution state is confirmed by electrospray mass spectrometry. With such a subtle variation, modulation of hydrophilicity inside the cavity of these molecular rectangles is achieved as evident from the water and methanol vapor sorption studies.
URI:	https://pubs.rsc.org/en/content/articlelanding/2020/CC/D0CC02379E#!divAbstract (https://pubs.rsc.org/en/content/articlelanding/2020/CC/D0CC02379E#!divAbstract) http://hdl.handle.net/123456789/3227 (http://hdl.handle.net/123456789/3227)
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