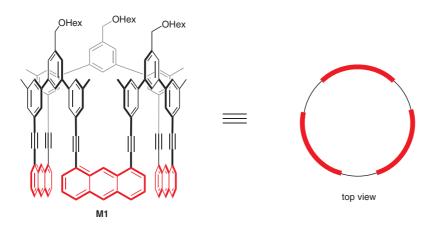
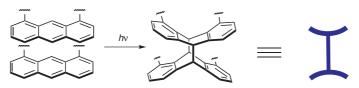
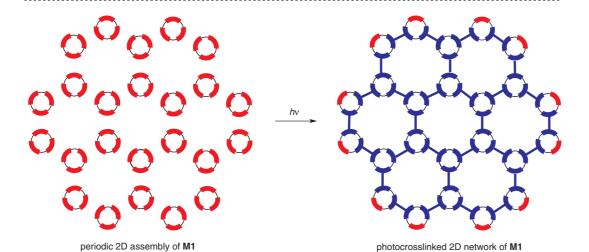
P. KISSEL, A. D. SCHLÜTER,* J. SAKAMOTO* (ETH ZÜRICH, SWITZERLAND)

Rational Monomer Design towards 2D Polymers: Synthesis of a Macrocycle with Three 1,8-Anthrylene Units *Chem. Eur. J.* **2009**, *15*, 8955-8960.

Molecular Chain Mail







Significance: Macrocycle **M1**, which contains three 1,8-anthrylene units tethered together in $C_{3\nu}$ symmetry, was synthesized by iterative palladium-catalyzed cross-couplings and one copper-free Sonogashira cross-coupling.

Comment: Macrocycle **M1** was designed as a potential monomer to yield a 2D polymer network that is a single layer thick. The bottom-up synthesis of such networks has yet to be achieved. Herein, the authors lay the foundations to achieve this goal.

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Category

Synthesis of Materials and Unnatural Products

Key words

anthracenes

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Sonogashira-Hagihara crosscoupling

copper-free Sonogashira crosscoupling



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