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Electrostatic self-assembly of p-sulfonatocalix[4]arene and pillar[n]pyridiniums into organic crystals

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Macrocyclic host molecules are versatile building blocks in the supramolecular chemistry and crystal engineering. We report here an aqueous self-assembly driven by complementarity in charge and symmetry between two families of charged macrocyclic hosts - cationic pillar[n]pyridiniums and anionic p-sulfonatocalix[4]arene. The crystallization in gel and liquid-liquid diffusion have been used to obtain suitable crystals build from mixed macrocycles for single crystal X-ray diffraction analysis.

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