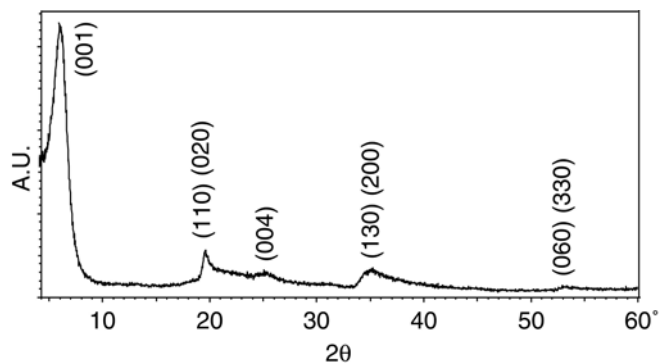


Supplementary Information

5 Nanoporosity of an Organo-clay Shown by Hyperpolarized Xenon and 2D NMR Spectroscopy

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10 **Figure S1.** Powder X-ray diffraction of TEA-Hectorite. The profile was recorded by applying a 0.02° step and an acquisition time of 4s on a Bruker Advance D8 instrument.



15 **Figure S2.** Pore distribution as obtained by Hovarth-Kavazoe method and based on nitrogen adsorption isotherm at 77K.