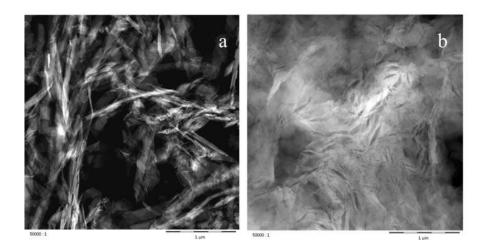
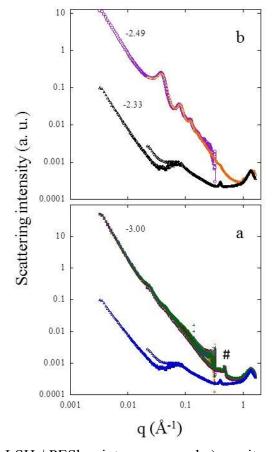
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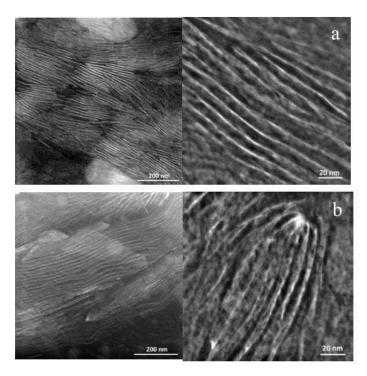
Supporting Information



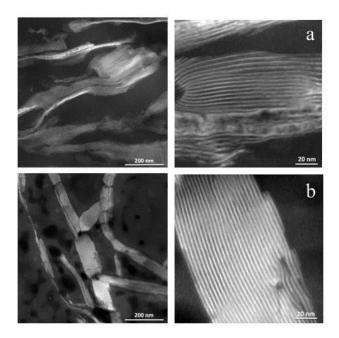
SEI 1. TEM pictures of a) LSH and b) LDH phase. Scale bar is of 1 μ m.



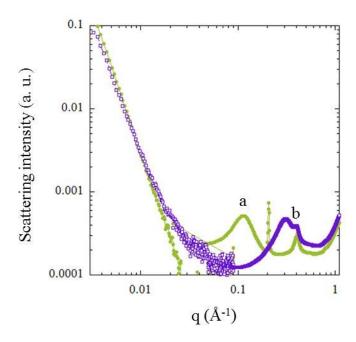
SEI 2. SAXS spectra for LSH / PESh mixture prepared a) ex-situ and b) in-situ. The slope in the domain [40 to 140 nm] is indicated. Symbol # represents the acetate LSH harmonic diffraction peaks.



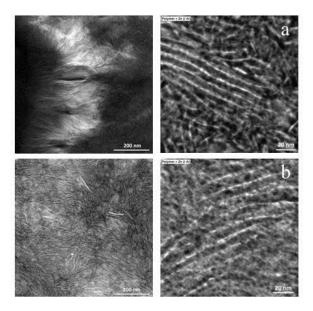
SEI 3. TEM pictures of the LSH-Zn-PES synthetized by a) in-situ and b) ex-situ. Scale bar represent 200 and 20 nm.



SEI 4. TEM pictures of LSH platelets dispersed ex-situ in a) bola-PES and b) bola-HBA.



SEI 5. SAXS spectrum of the bola itself dispersed in water is displayed in a) for bola-PES and b) bola-HBA



SEI 6.TEM pictures of the LDH PES synthetized by a) in-situ and b) ex-situ. Scale bar represent 200 and 20 nm.