

Supplementary material

Table S1. Summary of SAXS data for all samples

Sample	d100 Å	Lattice parameter (Å)	Wall thickness (Å)	FWHM
1 wt%	77.49	89.48	-	0.0285
5 wt%	98.16	113.34	44.34	0.0128
	116.25 ^O	134.23 ^O	65.23 ^O	0.0185 ^O
	119.38 ^F	137.85 ^F	68.85 ^F	0.0114 ^F
9 wt% 180 °C	100.39	115.92	44.92	0.0114
9 wt% 160 °C	102.72	118.61	42.61	0.0128
	122.69 ^O	141.68 ^O	65.68 ^O	0.0114 ^O
	129.93 ^F	150.02 ^F	74.02 ^F	0.0128 ^F
	107.74 ^W	124.40 ^W	56.40 ^W	0.0213 ^W
9 wt% 120 °C	93.98	108.51	61.51	0.0157
9 wt% 100 °C	92.02	106.26	61.26	0.0157
12 wt%	105.18	121.45	47.45	0.0128
18 wt%	96.03	110.88	58.88	0.0157
	119.38 ^O	137.85 ^O	85.85 ^O	0.0128 ^O
	142.48 ^F	164.52 ^F	112.52 ^F	0.0128 ^F

Where ^O indicates ° oven dried, ^F fresh spray dried, ^W indicates water as a solvent and ^H indicates 2 hour hydrolysis time

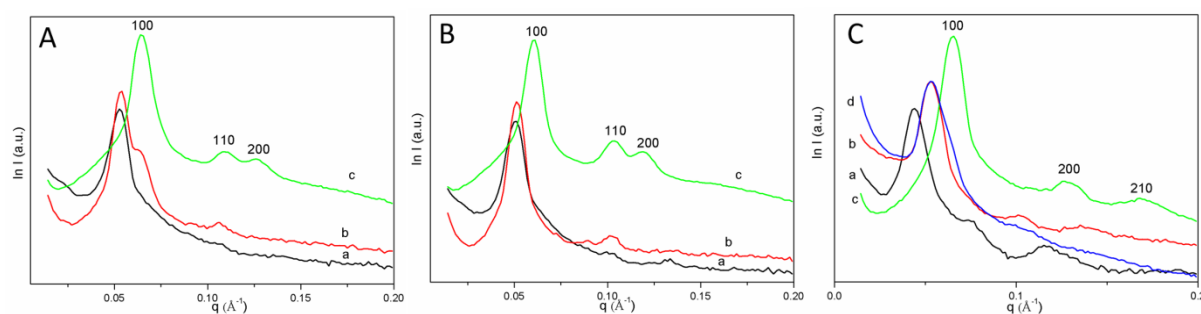


Fig. S1. SAXS patterns of spray dried samples for inlet temperature 160 °C where a, b, and c, are fresh spray dried, oven dried, and calcined where A, B, and C, are 5, 9, and 18 wt% for the initial solute content respectively, while d refers to the 18 wt% 2 hour hydrolysis oven dried material

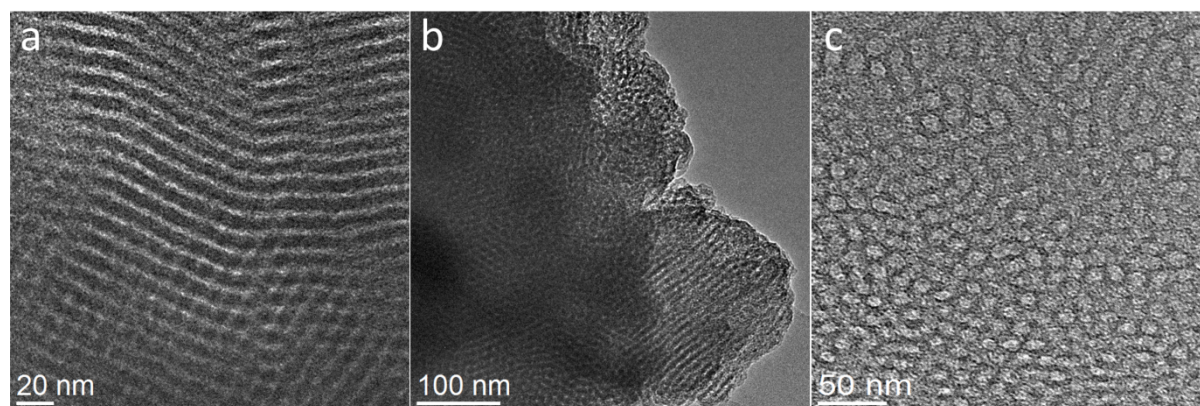


Fig. S2. TEM micrographs of fresh spray dried samples for inlet temperature 160 °C where a, b, and c, are 5, 9, and 18 wt% initial for the solute content, respectively