

Supplementary Material

Table S1. Parameters for the deposition of the copolymeric mixture on 3D substrate.

Material	Mixture deposition via dip-coating		Immersion cycles	Wrinkles patterns formation	
	Speed (mm/s)			Irradiation UV light	Vacuum time
	Input	Output			
PLA	1.10	0.45	2	30 s	1 h
PCL	1.10	0.45	2	1 min	2.5 h
PCL/NaCl	1.10	0.45	2	1:30 min	2.5 h
PCL/nHA	1.10	0.45	2	1:30 min	3 h
PCL/nHA/NaCl	1.10	1.20	3	1:30 min	3 h
HIPS	1.10	0.45	2	5 min	8 h
TPU	1.10	1.10	3	1 min	2 h

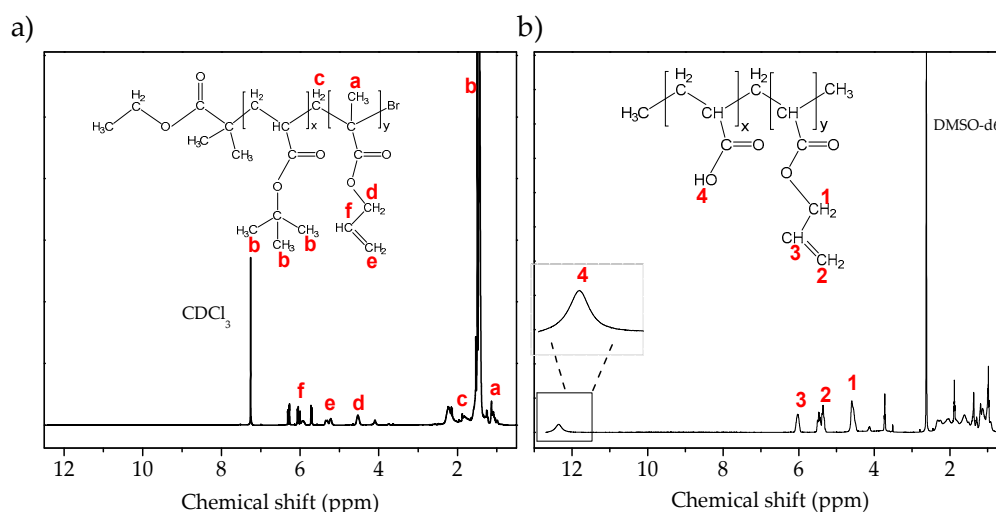


Figure S1. ^1H -NMR and structure of the a) protected and b) unprotected copolymer in a mole ratio of 90:10.

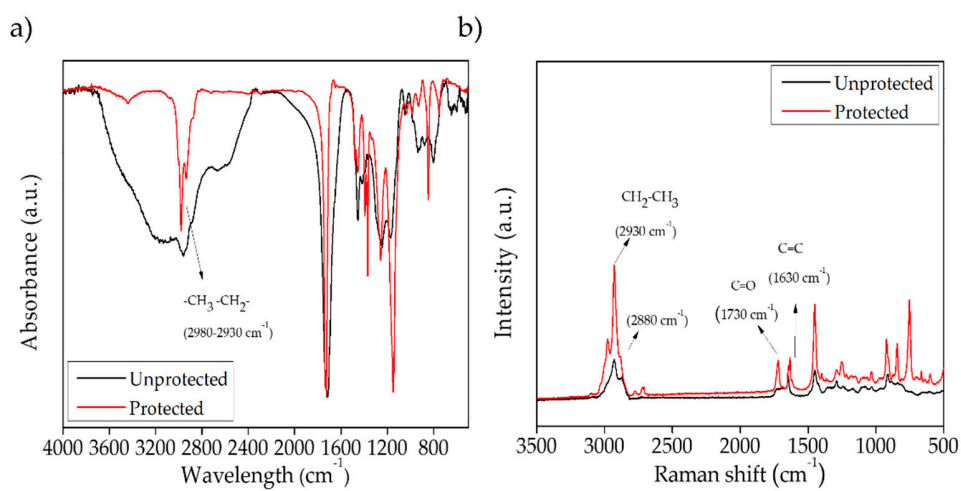


Figure S2. a) FT-IR, and b) Raman spectroscopy of unprotected and protected copolymers in a mole ratio of 90:10

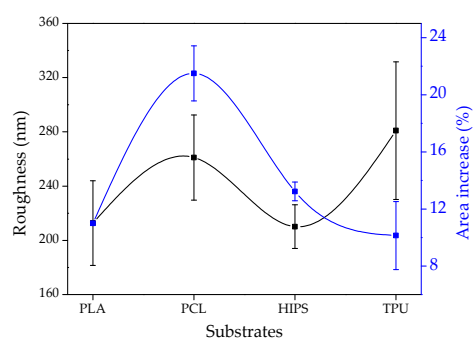


Figure S3. Graph roughness (line black) and area increase (line blue).

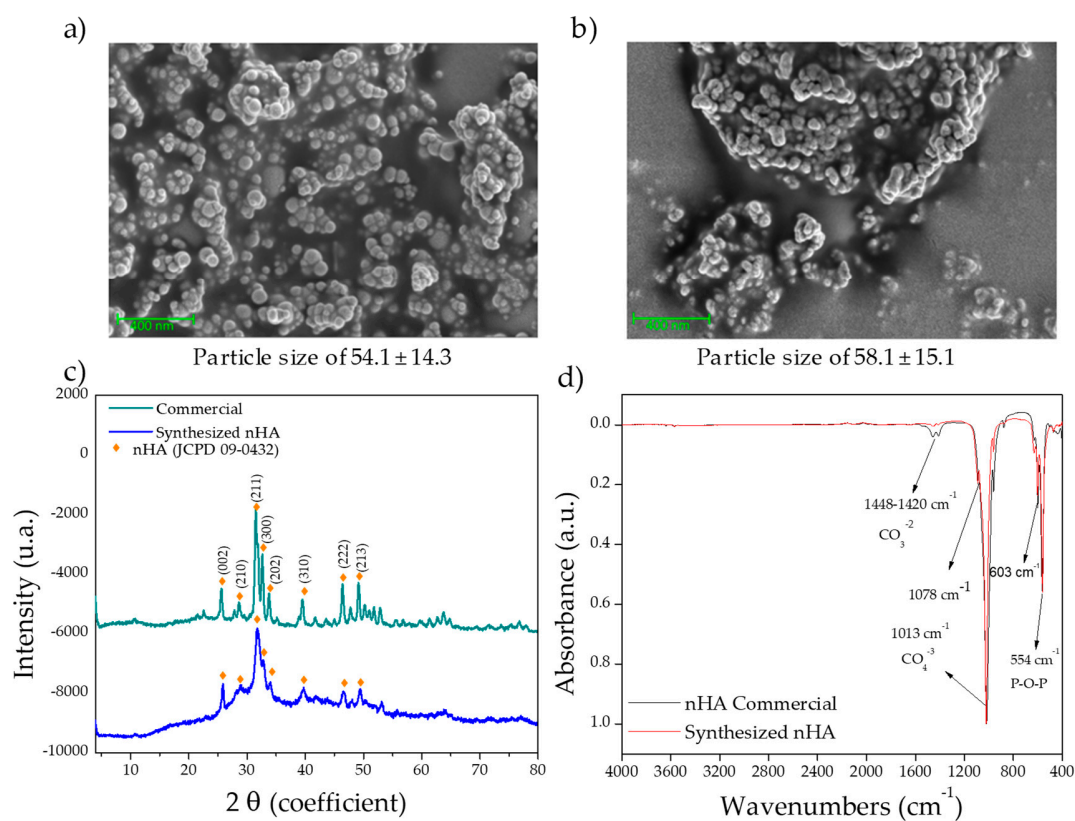


Figure S4. Analysis and characterization of synthesized and commercial nHA particles. a) FE-SEM commercial nHA. b) FE-SEM nHA synthesized. c) ATR-FTIR commercial nHA (line black) and synthesized (line red). d) Analysis XRD nHA commercial (line green) and synthesized (line blue).

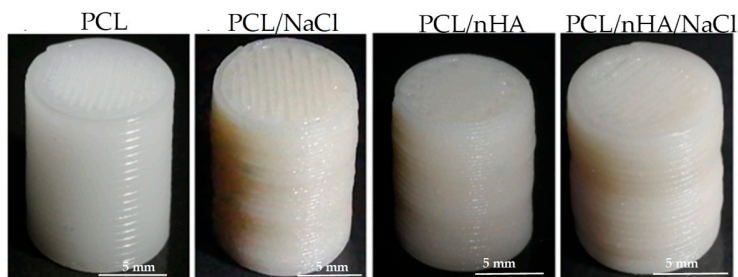


Figure S5. Different scaffolds printed in FDM.

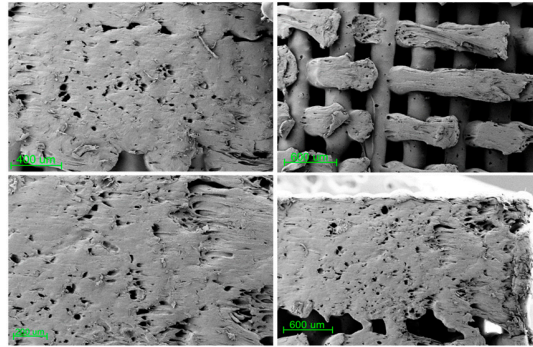


Figure S6. FE-SEM of the internal structure of the PCL/nHA/NaCl scaffolds with 14 days of leaching in different zones.

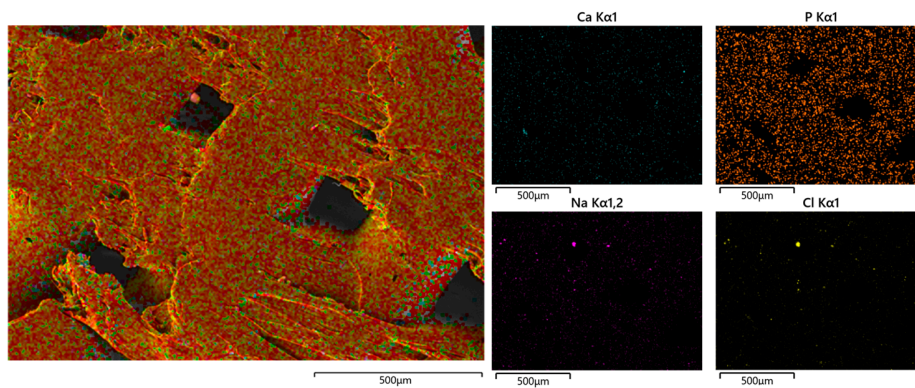


Figure S7. EDX measurements of the PCL/nHA/NaCl leached sample

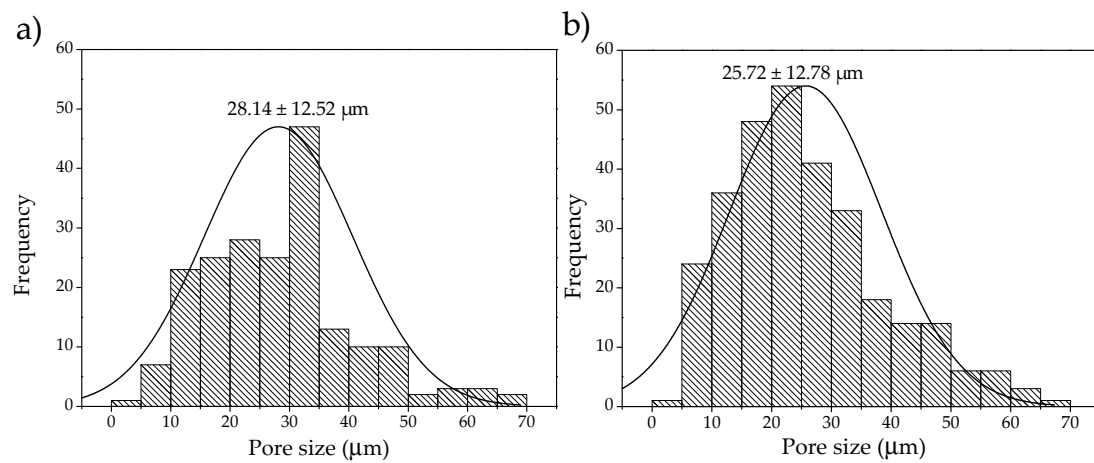


Figure S8. Histogram of pore size of the: a) PCL/NaCl and b) PCL/nHA/NaCl scaffolds.