

Supplementary Materials

Table S1. The relative intensities of 1141 cm^{-1} and 1073 cm^{-1} peaks in the attenuated total reflectance-Fourier transform infrared spectroscopy (ATR-FTIR) spectra of Polyvinyl alcohol/bamboo charcoal nanoparticle (PVA/BCNP) nanocomposites after simulated body fluid (SBF) immersion for 7 days.

Sample	Absorbance at 1141 cm^{-1}	Absorbance at 1073 cm^{-1}	Absorbance Ratio (1141 cm^{-1} /1073 cm^{-1})	Surface Crystallinity of PVA (%)
PVA	0.10217	0.23408	0.436	30.4
PB ₁	0.10618	0.22600	0.470	32.0
PB ₅	0.07024	0.15056	0.467	31.8
PB ₁₀	0.07252	0.15512	0.468	31.9
PB ₂₀	0.05046	0.10276	0.491	32.9

Surface crystallinity of PVA (%) = [Absorbance at 1141 cm^{-1} /(Absorbance at 1141 cm^{-1} + Absorbance at 1173 cm^{-1})] $\times$ 100%.

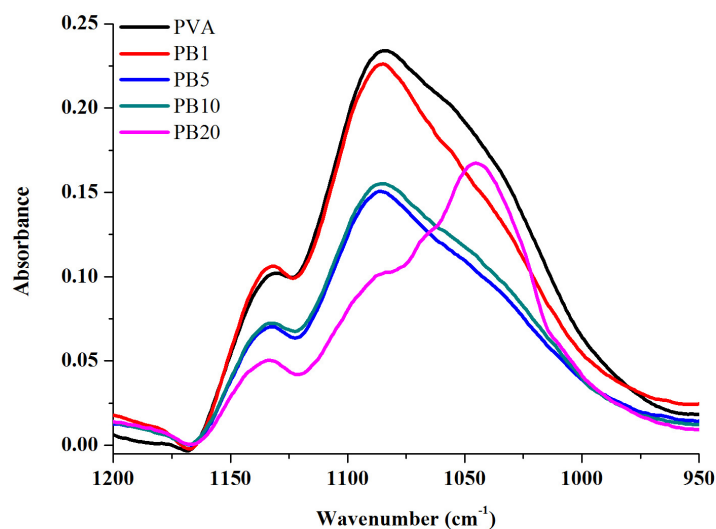


Figure S1. Enlarged ATR-FTIR spectra in the range of 950 to 1200 cm^{-1} for PVA/BCNP nanocomposites after SBF immersion for 7 days.