Supplementary Information

Bioactive Borophosphosilicate-Polycaprolactone Hybrid Biomaterials via Non-aqueous Sol Gel Process

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Figure S1. TGA thermograms of PCL diol and PCL-Si.



Figure S2. FTIR spectra of the carbonyl stretching in the range of 1650–1800 cm⁻¹ for PCL-Si and PCL-Si/BPSG hybrid materials.

Elements	EDX analysis		XPS analysis			
	BPSG (atomic%)	50H (atomic%)	BPSG (atomic%)	10H (atomic%)	30H (atomic%)	50H (atomic%)
Si	27.1	12.85	18.9	19.1	18.8	11.6
Р	2.05	0.35	1.1	0.6	0.4	0.3
В	-	-	1.1	1.0	0.8	0.3

Table S1. Atomic compositions of Si, P and B appeared in BPSG and hybrid materials measured by EDX analysis and XPS analysis.



Figure S3. (A) TGA thermograms and (B) first derivative of weight loss curves for BPSG, PCL-Si and PCL-Si/BPSG hybrid materials.



Figure S4. Digital pictures of as-prepared dry hybrid materials.