Stable and antibacterial magnesium-graphene nanocomposite-based implants for bone repair

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Supporting information including:

Total 2 pages;

One Supplementary Figure;

One Supplementary Table.

Supplementary Figure

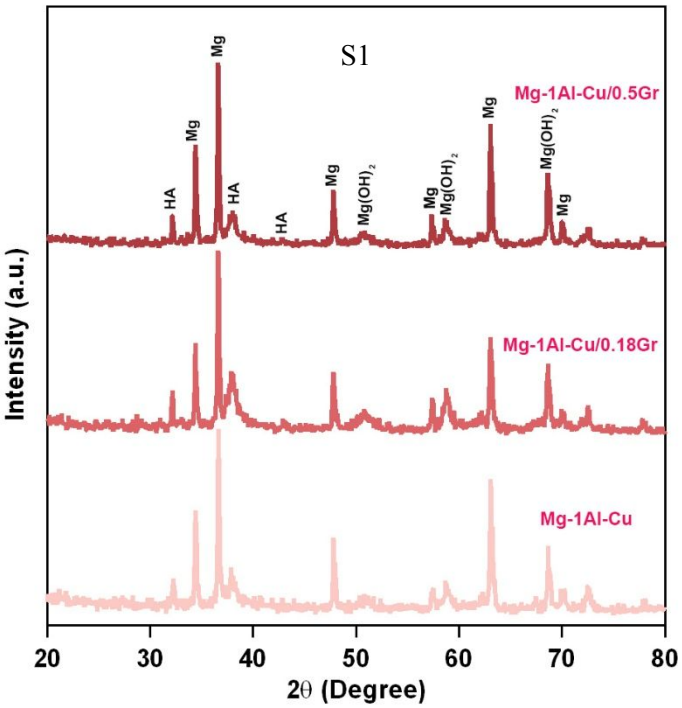

Fig. S1. XRD pattern of Mg-1Al-Cu/xGr nanocomposite (x= 0, 0.18 and 0.5 wt.%) samples in SBF solution over 10h.

Supplementary Table

Table. S1. Theoretical and experimental density of Mg-1Al-Cu/xGr (x=0. 0.18 and 0.5 wt.%) nanocomposites.

Material	Reinforcement particles (wt.%)			Theoretical density (g/cm^3)	Experimental density (g/cm^3)	Relative density (%)	Porosity (%)
	Al	Cu	Gr				
Mg-1Al-Cu	1	0.25	0	1.75	1.73±0.01	98.7±0.6	1.3±0.6
Mg-1Al-Cu/0.18Gr	1	0.25	0.18	1.74	1.71±0.01	98.9±0.3	1.1±0.3
Mg-1Al-Cu/0.5Gr	1	0.25	0.50	1.76	1.73±0.01	96.3±0.3	3.6±0.3