Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Polycaprolactone-MXene coating for controlling initial biodegradation of magnesium implant by Near-Infrared Light

Chen Ma,[a] Hao An, [a] Yu-Kyoung Kim,[a] Seo-Young Kim,[a] Yong-Seok Jang, *[a] and Min-Ho Lee*[a]

[a]Department of Dental Biomaterials, Institute of Biodegradable Materials, School of Dentistry, Jeonbuk National University, Jeon-Ju 54896, Republic of Korea

E-mail: Min-Ho Lee, mh@jbnu.ac.kr

Contents

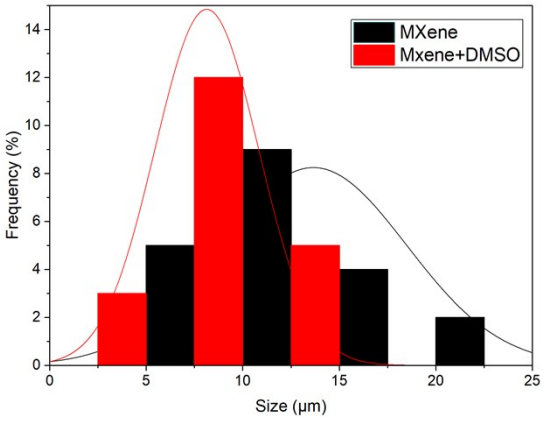
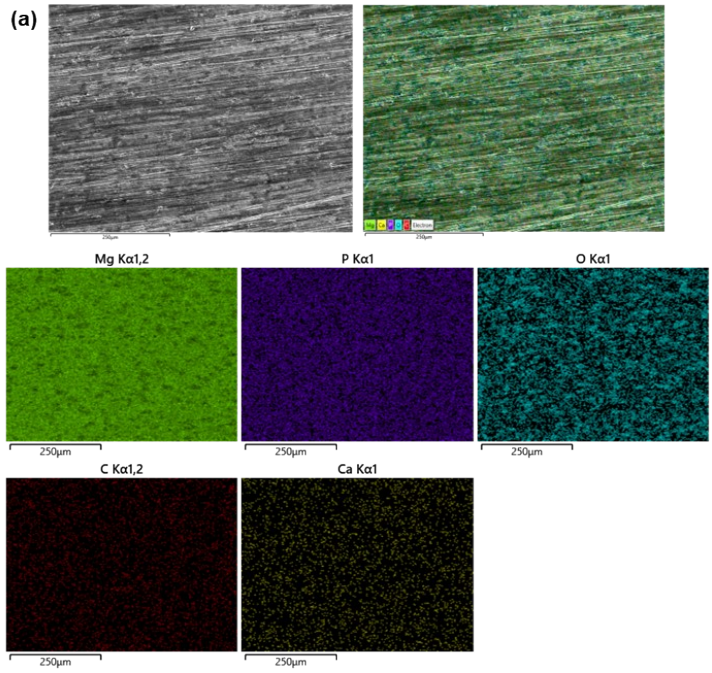


Figure S1. Mxene particle size distribution by different synthesis methods.



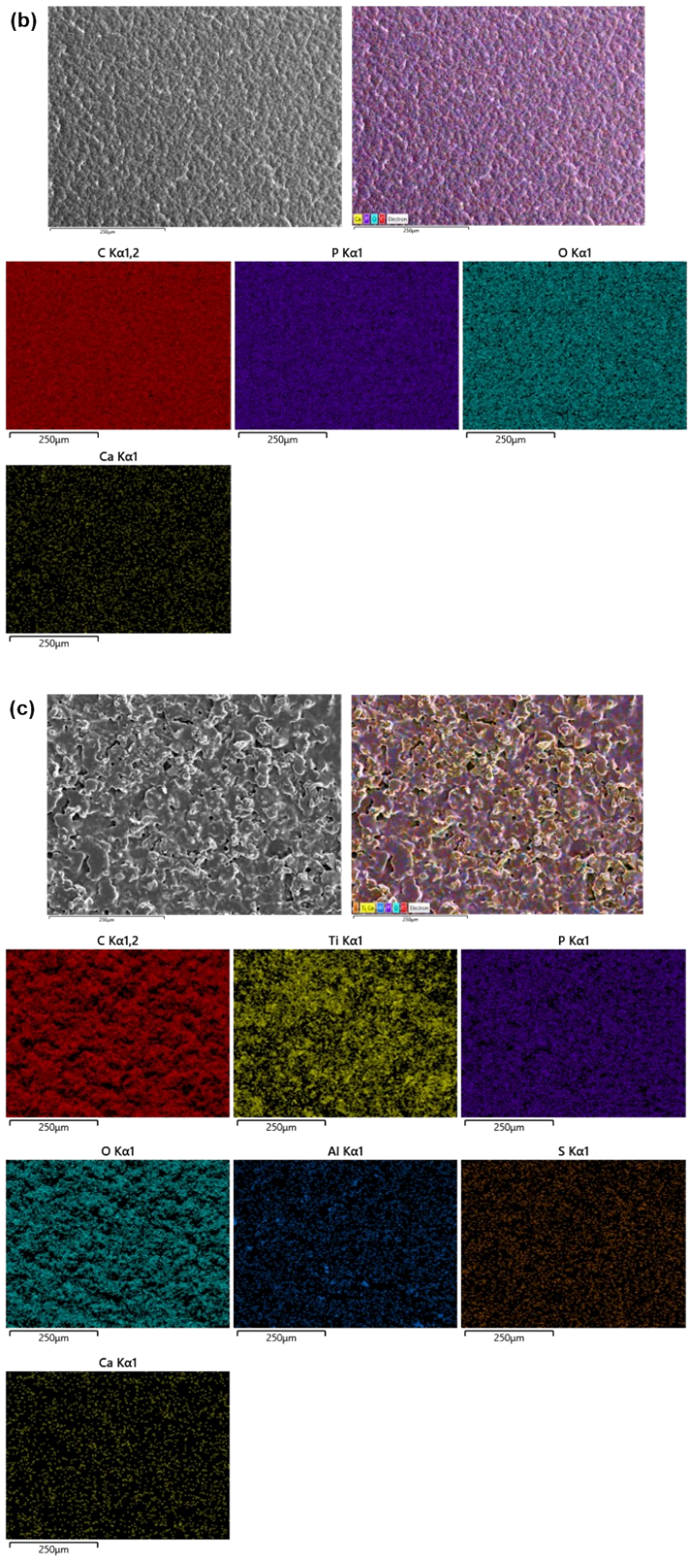


Figure S2. EDS map of Mg(a), PCL(b), and Mg/PCL-Mxene(c).

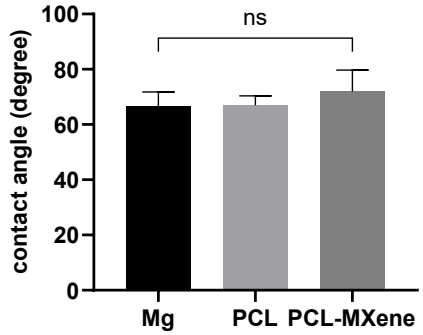


Figure S3. Contact angles of Mg, PCL, and PCL-MXene.

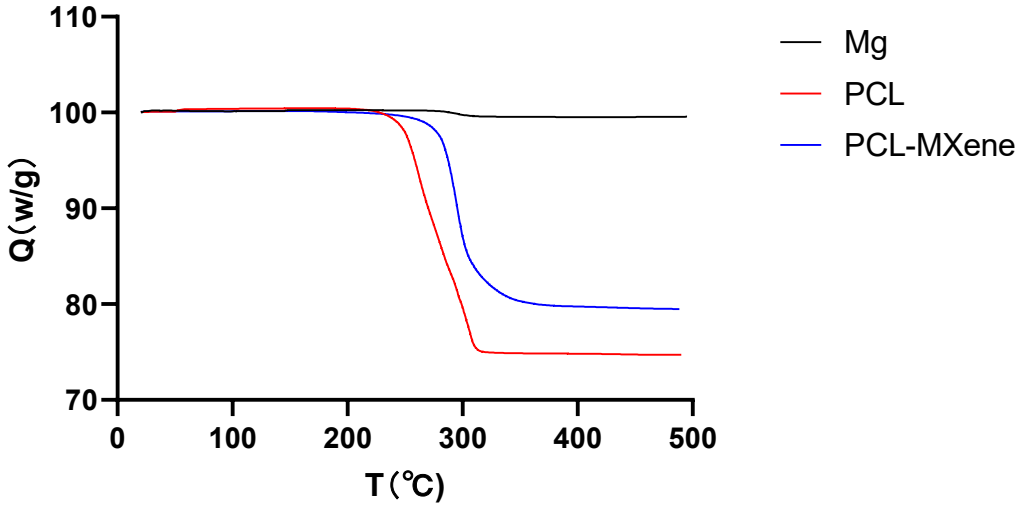


Figure S4. TGA curves of Mg, PCL, and PCL-MXene which recorded in the 10 °C to 120°C temperature range.