

# Electronic Supplementary Material

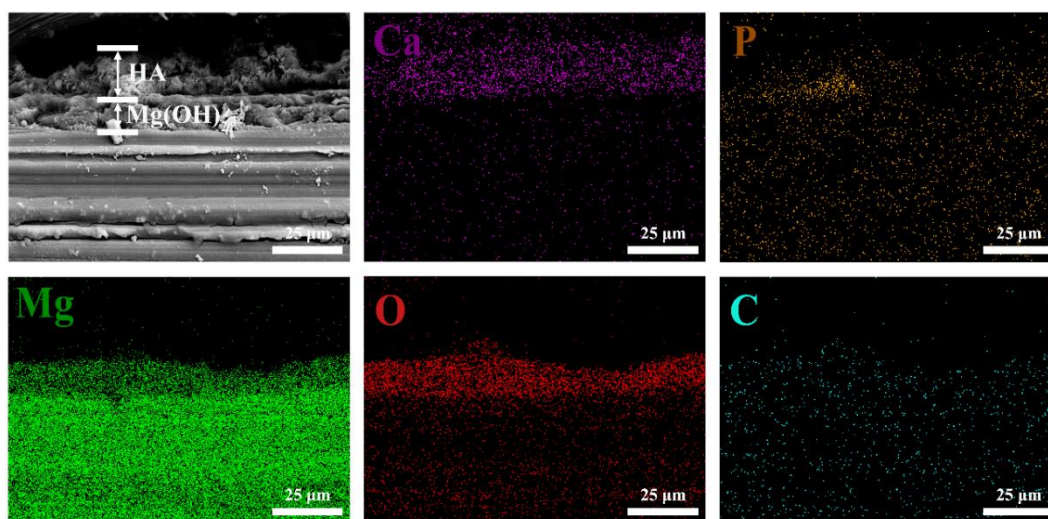
## Hydroxyapatite/palmitic acid superhydrophobic composite coating on AZ31 magnesium alloy with both corrosion resistance and bacterial inhibition

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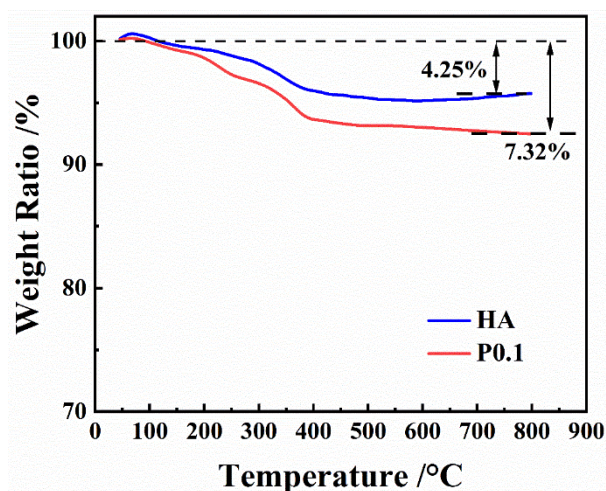
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**Fig. S1** SEM images of the cross-section of the HA/PA composite coating and elemental distributions.



**Fig. S2** Thermal decomposition curves of samples HA and P0.1.