

# Supporting Information

## Oxyhydroxide coated PEO-treated Mg alloy for enhanced corrosion resistance and bone regeneration

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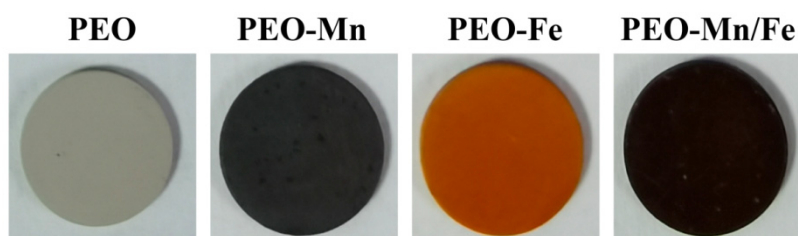
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*#Juning Xie and Shi Cheng contribute equally to this work.*

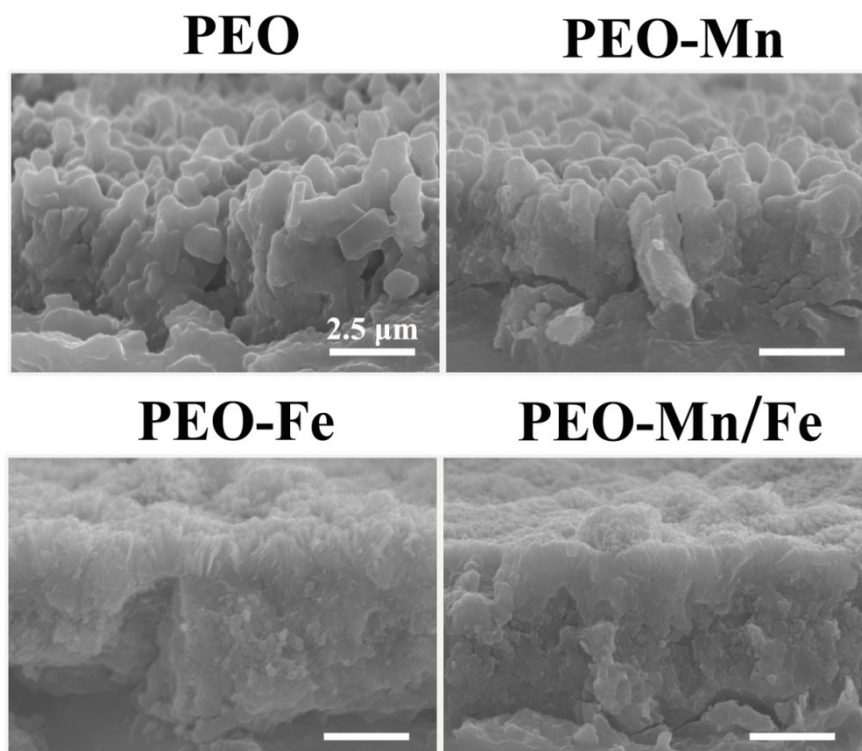
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**Table S1.** Primer sequences of the osteogenesis-related genes used in this study.

Genes	Forward sequence	Reverse sequence
GAPDH (rat)	AAGGTCGGTGTGAACGGATTTG	TGTAGTTGAGGTCAATGAAGGGGTC
ALP	GCACAACATCAAGGACATCG	TCAGTTCTGTTCTTGGGGTACAT
RUNX2	TGTGTGCCTCCAACCTGTGT	CTTTCCCCCTCAATTTGTGTCA
OCN	ATAGACTCCGGCGCTACCTC	CCAGGGGATCTGGGTAGG
COL-I	GAAGACCTGGCGAGAGAGGA	TCAATCCATCCAGACCGTTG
OPN	CCAGCCAAGGACCAACTACA	AGTGTTTGCTGTAATGCGCC



**Figure S1.** Representative optical images of PEO, PEO-Mn, PEO-Fe, and PEO-Mn/Fe samples.



**Figure S2.** Cross-section images of PEO, PEO-Mn, PEO-Fe, and PEO-Mn/Fe samples.