

## Supplementary Data for the Manuscript Entitled

### **Enhanced osteoblast functions of narrow interligand spaced Sr-HA nano-fibers/rods grown on microporous titania coatings**

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## Contents of Supporting Information

**Fig. S1.** AFM images of (a) Ti as well as the (b) as-MAOed, (c) MAO+HT2h, (d) MAO+HT12h and (e) MAO+HT24h coatings.

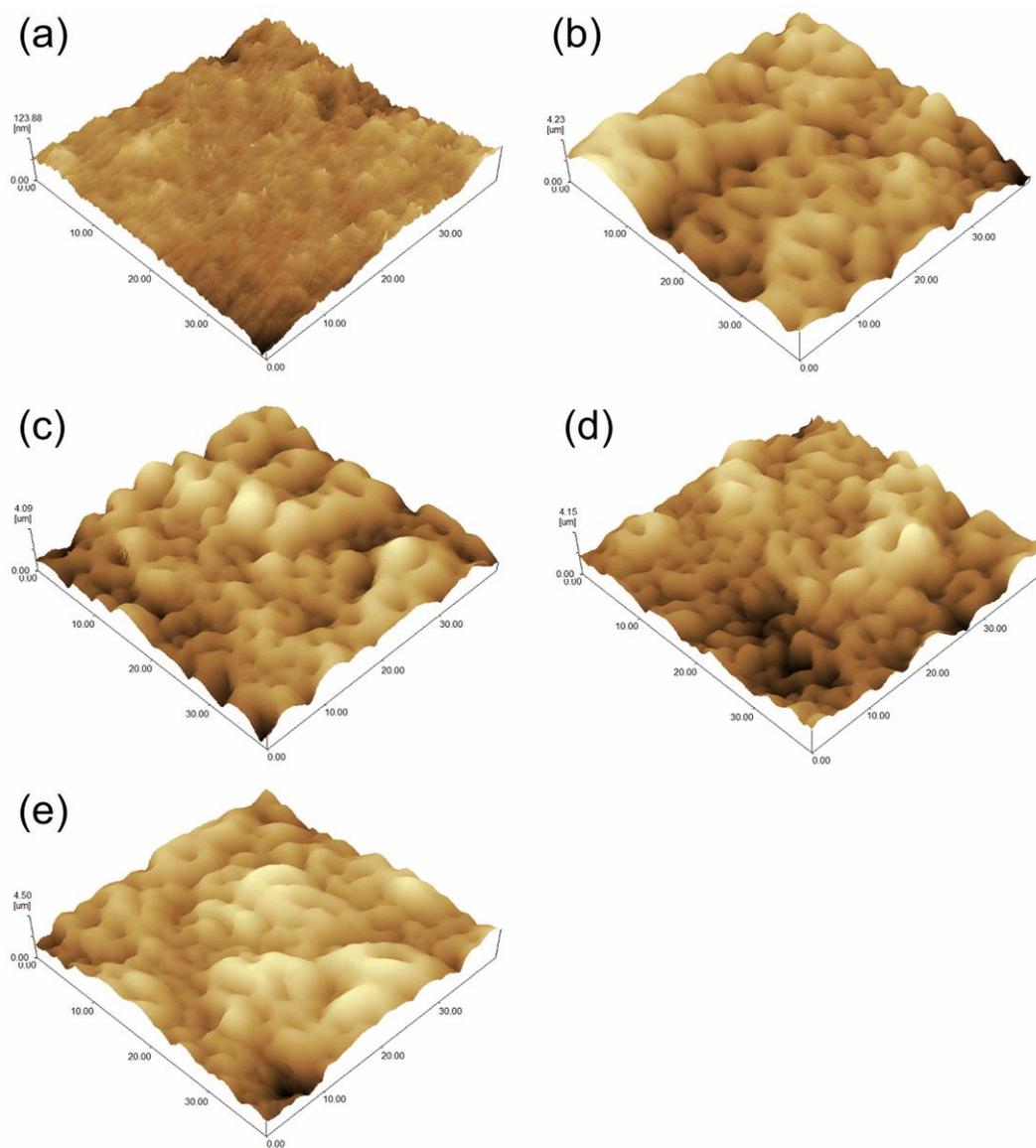
**Fig. S2.** Surface morphologies of the (a) as-MAOed, (b) MAO+HT2h, (c) MAO+HT12h and (d) MAO+HT24h coatings after immersion in PS solution for 24 weeks.

**Fig. S3.** Representative curves of acoustic output versus load and scratch morphologies (inserts) of the (a), (b) as-MAOed and (c), (d) MAO+HT24h coatings: (a), (c) before and (b), (d) after immersion in PS solution for 24 weeks.

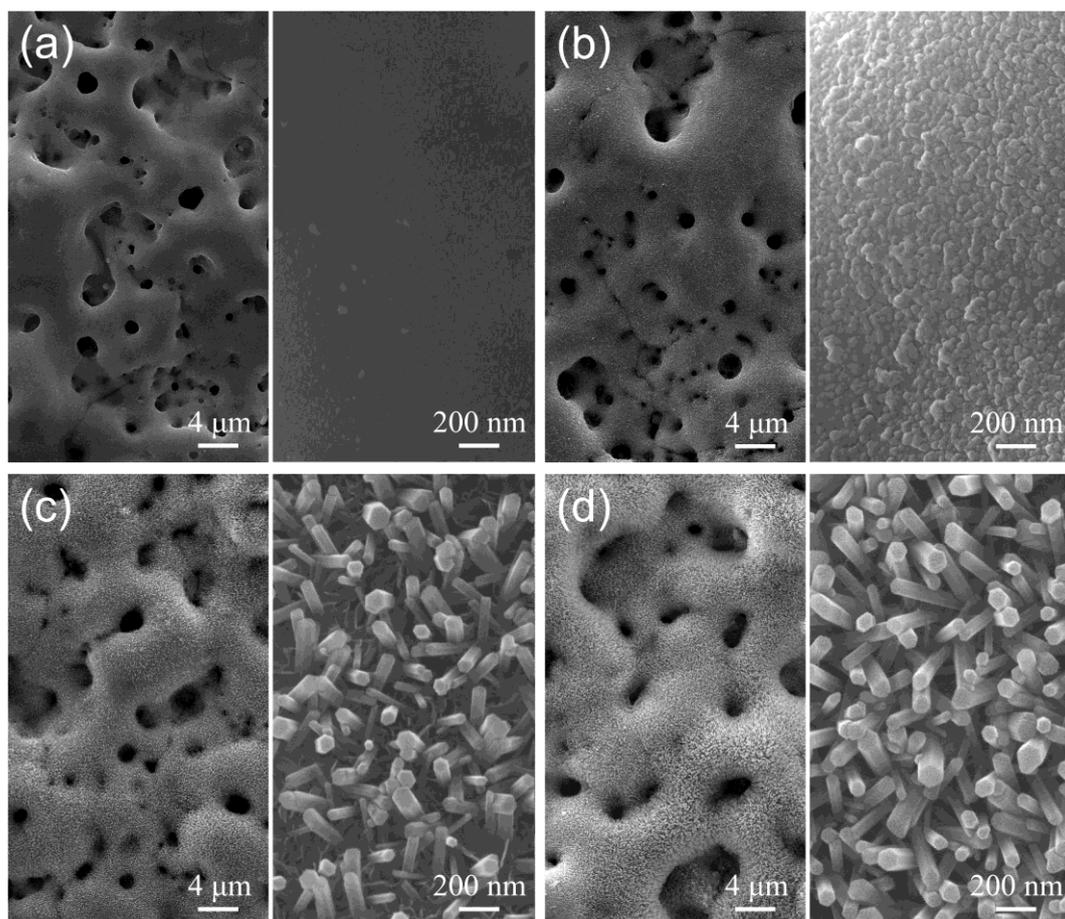
**Fig. S4.** Hydrophilicity of (a) Ti as well as the (b) as-MAOed, (c) MAO+HT2h, (d) MAO+HT12h and (e) MAO+HT24h coatings.

**Fig. S5.** Surface morphologies of the (a, b) MAO+HT24h, (c,d) as-MAOed and (e, f) MAO+HT2h coatings after immersion in SBF for different times (marked in the pictures); the up inserts are corresponding magnified images; the bottom insert in (a) is cross-sectional magnified images; the bottom insert in (b) is XRD pattern detected on the surface.

**Fig. S6.** Morphologies of the cells cultured on (a) Ti as well as the (b) as-MAOed, (c) MAO+HT2h, (d) MAO+HT12h and (e) MAO+HT24h coatings for 1 day.

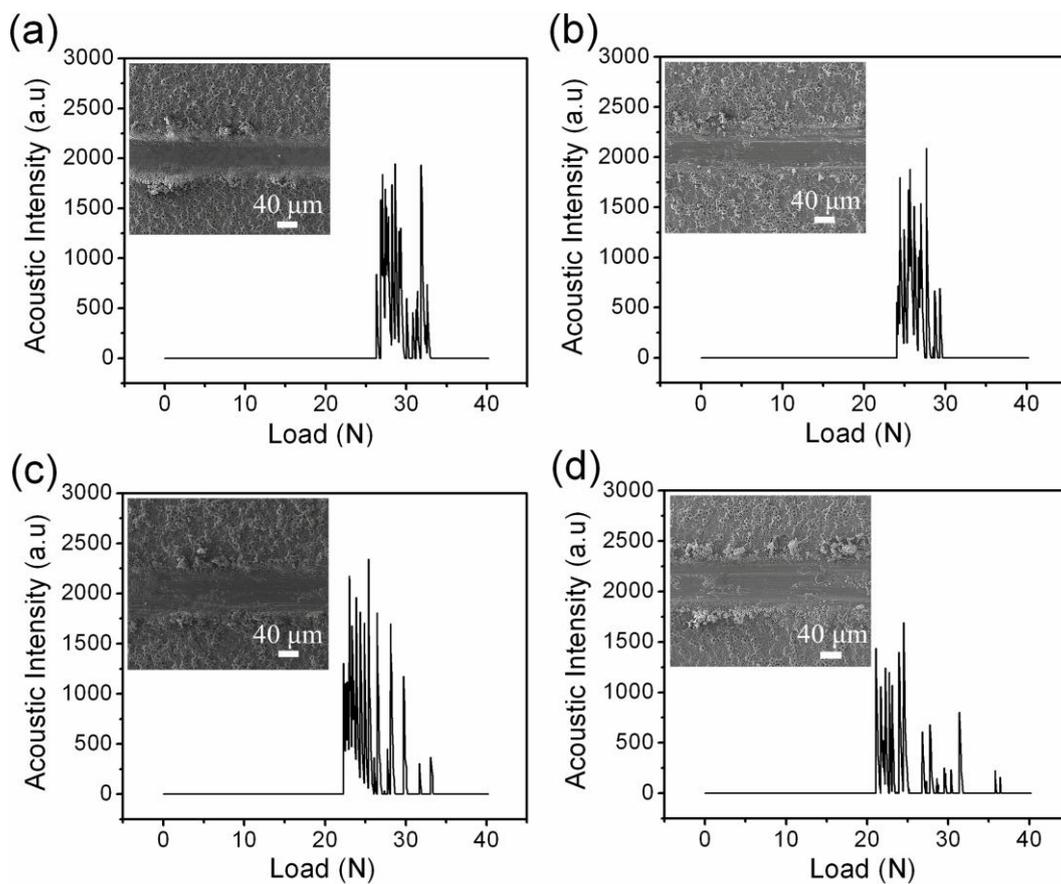


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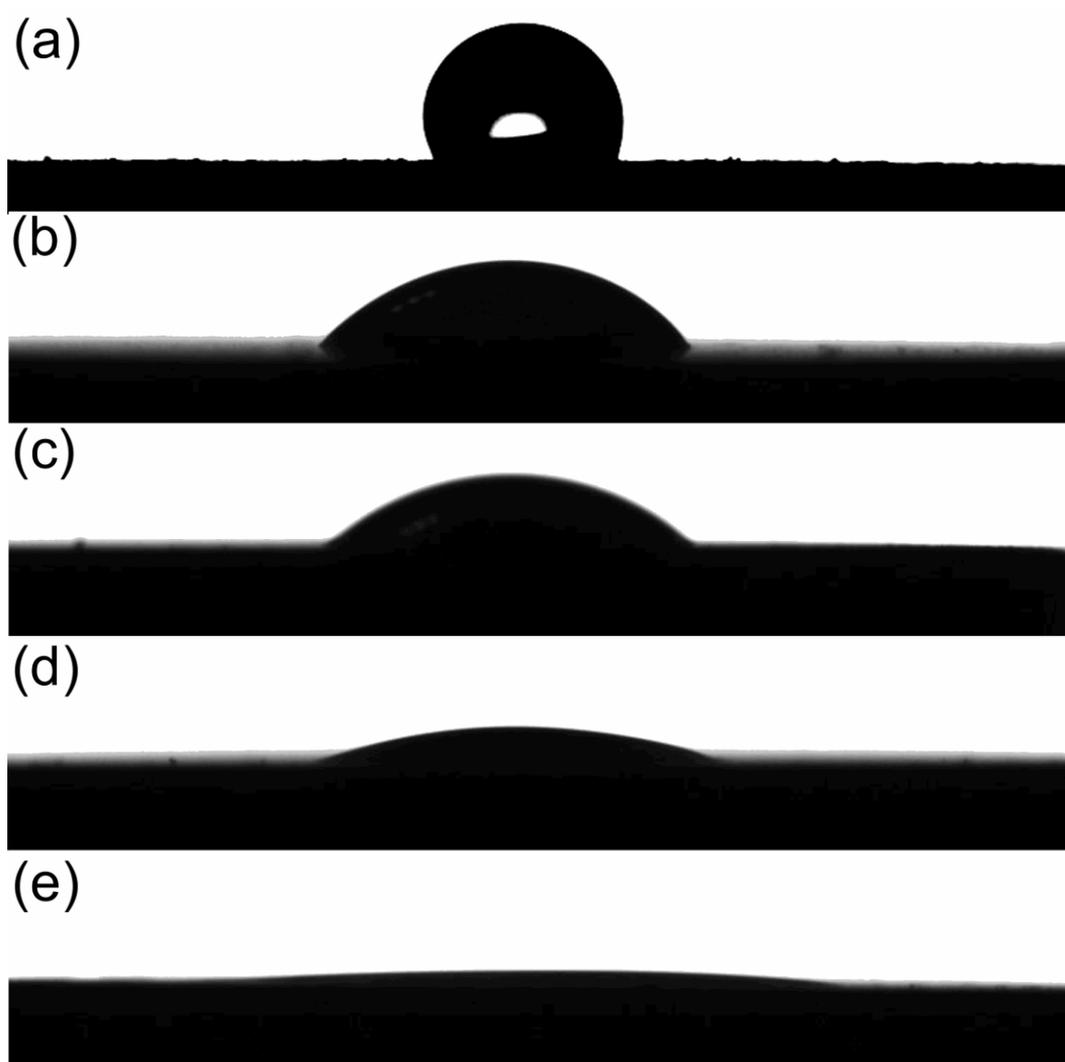


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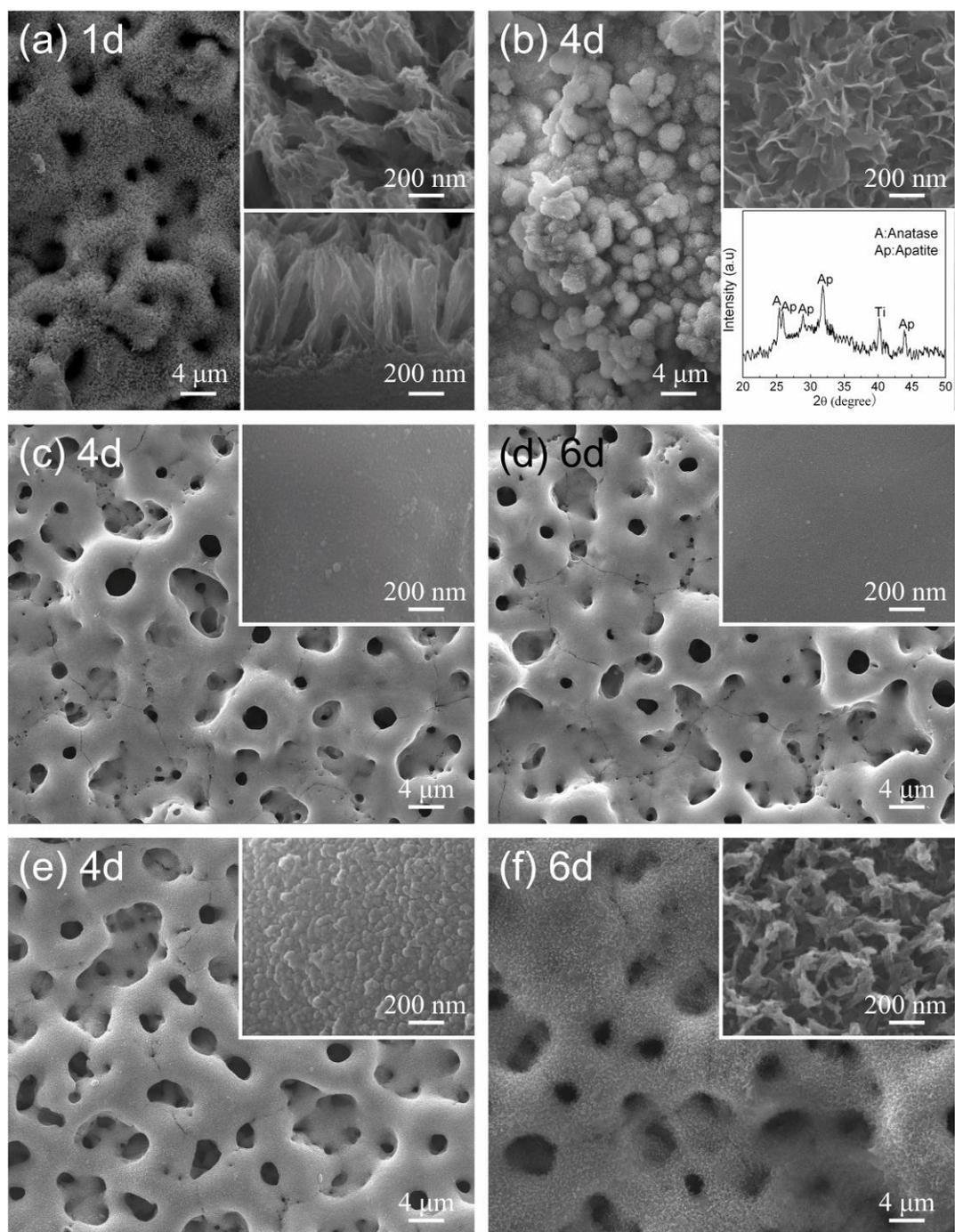
MAO+HT24h coatings after immersion in PS solution for 24 weeks.



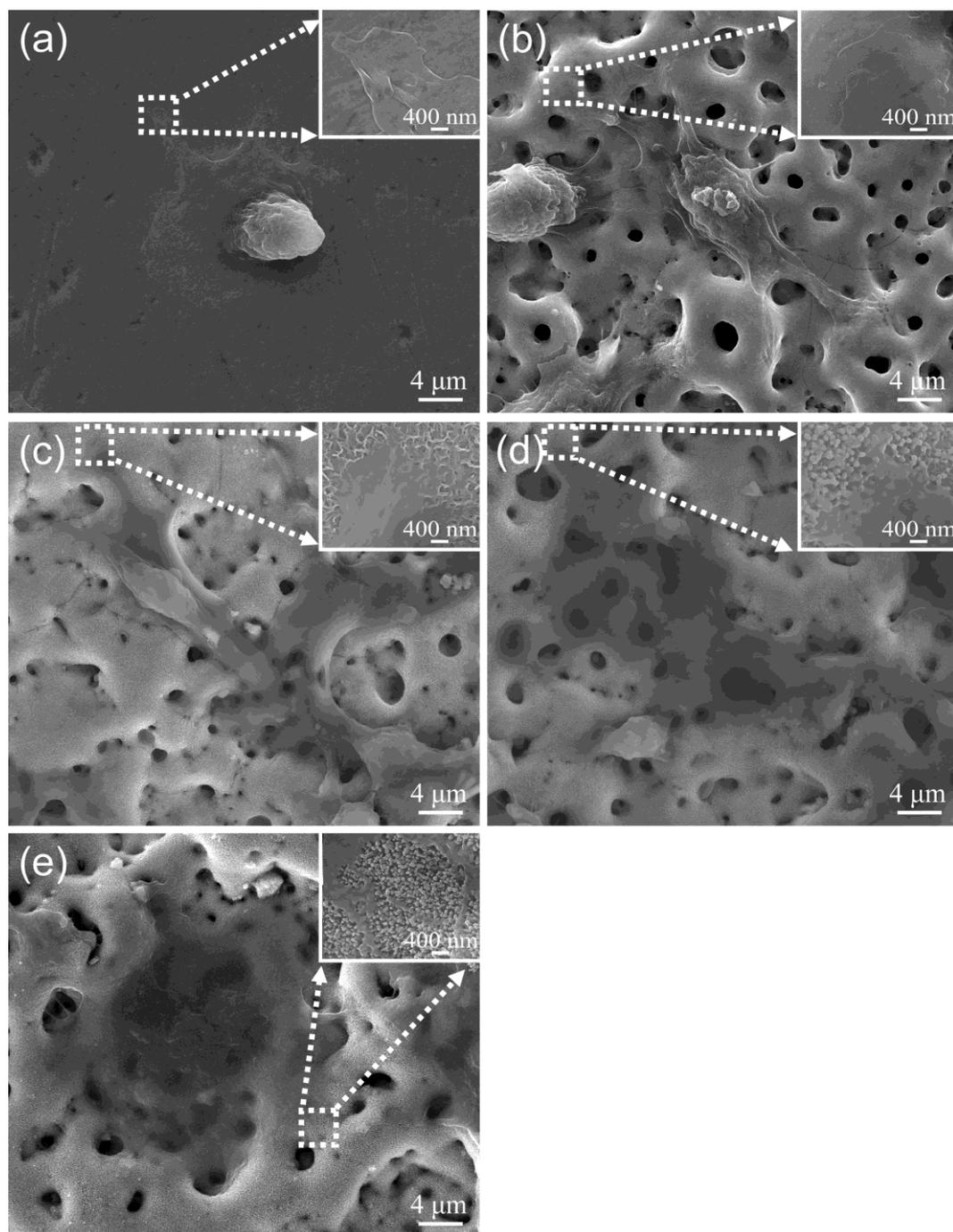
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