

Electronic Supplementary Information for:
Preparation of hydroxyapatite nanowires and nanorods via
aliphatic micelles as soft templates

Junhua Zhao,^{*a} Tao Chu,^a Qin Hu,^b Yinlin Lei,^{*a} Liu Liu,^b Gongjun Zhang,^c Tianqi Zhang,^a and Weijie Song^b

^aCollege of Chemical and Material Engineering, Quzhou University, Quzhou 324000, Zhejiang, China.

^bInstitute of Zhejiang University-Quzhou, Quzhou 324000, Zhejiang, China.

^cNingbo Institute of Materials Technology and Engineering, CAS, Ningbo 315201, Zhejiang, China

*Corresponding author: E-mail: qzzjh@qzc.edu.cn

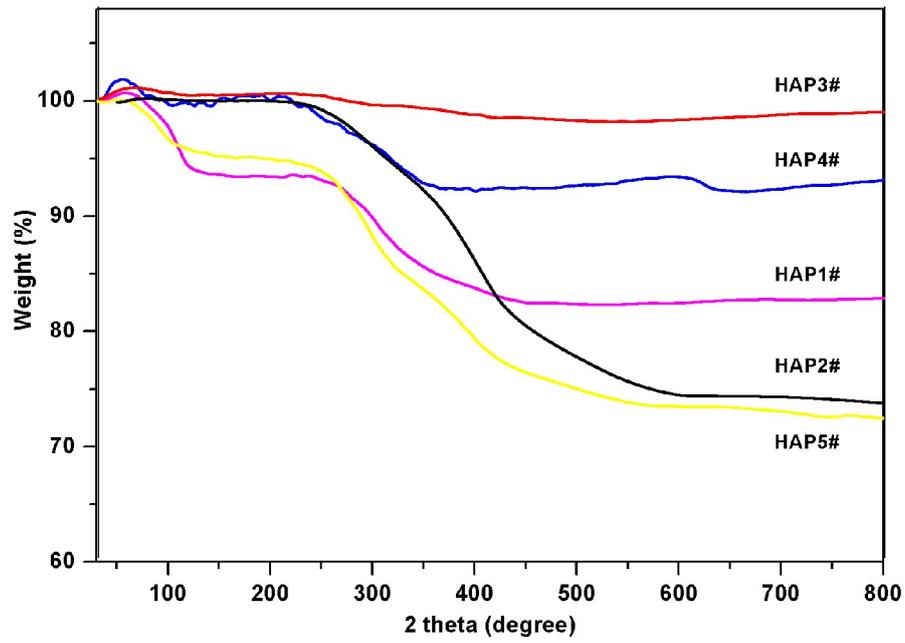


Fig. S1 Typical TG curves of HAP nanoparticles synthesized with different reactants at a heating rate of 20 °C/min.

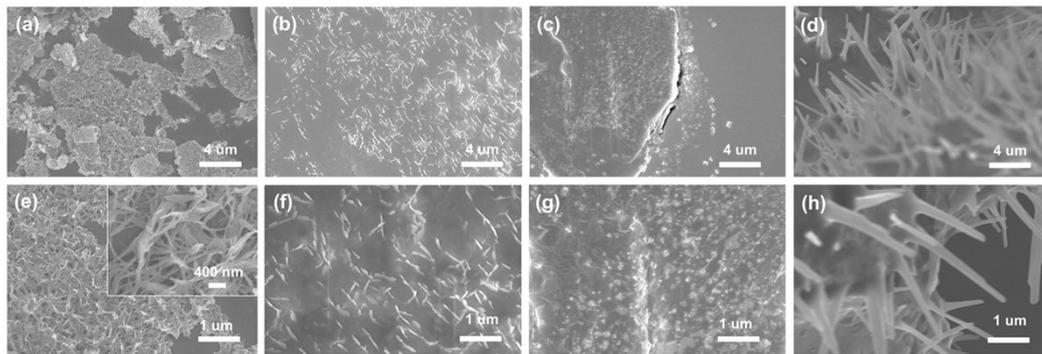


Fig. S2 Typical SEM images of precursor of HAP synthesized by (a, e) SA, (b, f) S0, (c, g) OAlc, and (f, h) OP-10.

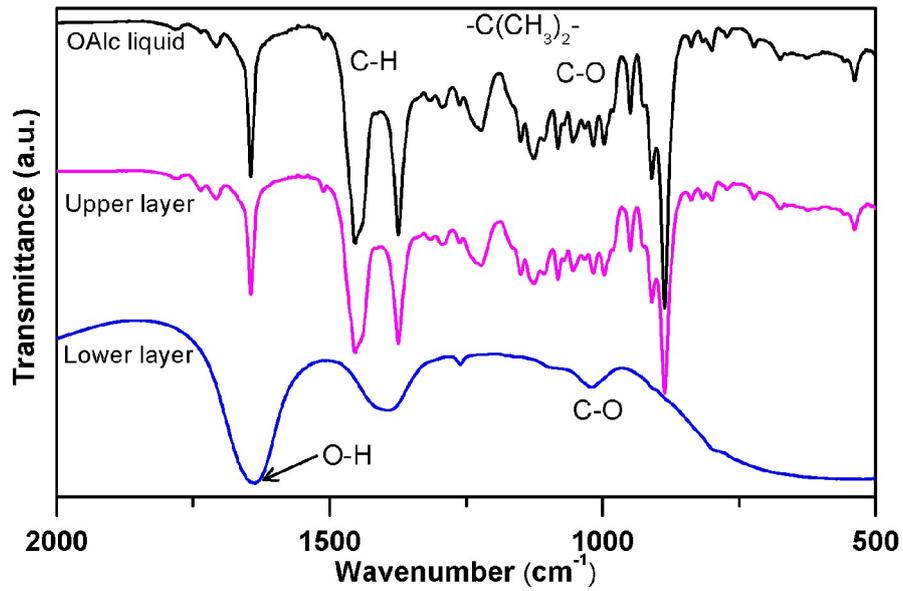


Fig. S3 Typical FT-IR images of the upper and lower layers of precursor synthesized with OAlc after standing for 30 min.

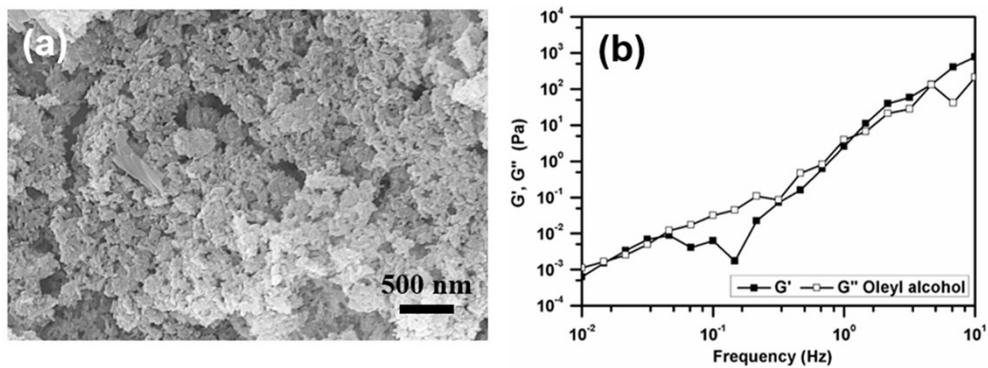


Fig. S4 (a) Typical SEM images of HAP nanoparticles synthesized with OAlc in lower layers, (b) storage modulus (G') and loss modulus (G'') of the upper layer precursor synthesized with OAlc after 30 min standing.

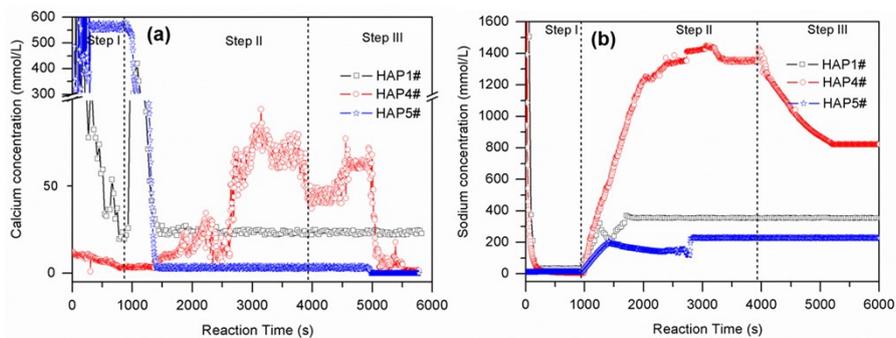


Fig. S5 The variation of (a) calcium and (b) sodium concentration in reaction process synthesized with different reactants.

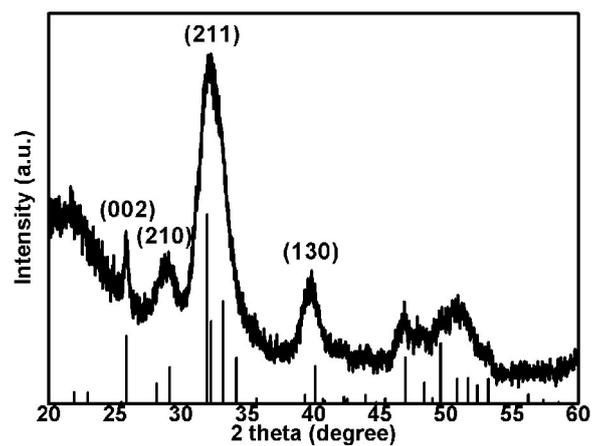


Fig. S6 Typical XRD patterns of nanoparticles synthesized with OP-10.

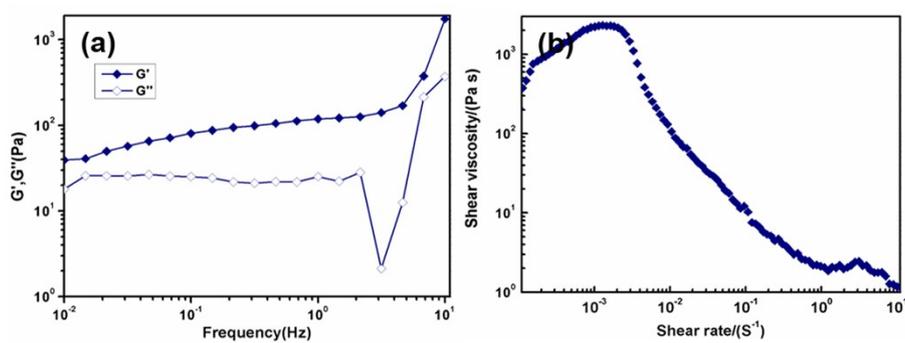


Fig. S7 (a) Storage modulus (G') and loss modulus (G'') and (b) shear viscosity/shear rate curve of the precursor synthesized with OP-10.