Supplementary Materials

Investigation of inclusion states of silicate and carbonate ions in hydroxyapatite particles prepared under the presence of sodium silicate

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Table S1

Table S1. Added amounts of the reagents in the synthesis of the SiHA particles. Here, the samples were named as HA, 0.8Si HA, 1.5Si HA, 4.0Si HA, 6.0Si HA, 8.0Si HA depending on the inital Si concentration.

Sample name	**Si concentration (wt%)**	**K_2HPO_4 (mmol)**	**$Na_2O \cdot 2SiO_2$ (mmol)**	**$CaCl_2 \cdot 2H_2O$ (mmol)**	**Ca / (P+Si) molar ratio**
HA	0.00	6.12	0.000	10.0	1.67
0.8 SiHA	0.80	5.83	0.253		
1.5 SiHA	1.50	5.58	0.272		
4.0 SiHA	4.00	4.70	1.24		
6.0 SiHA	6.00	4.02	1.83		
8.0 SiHA	8.00	3.36	2.42		

Figure S1

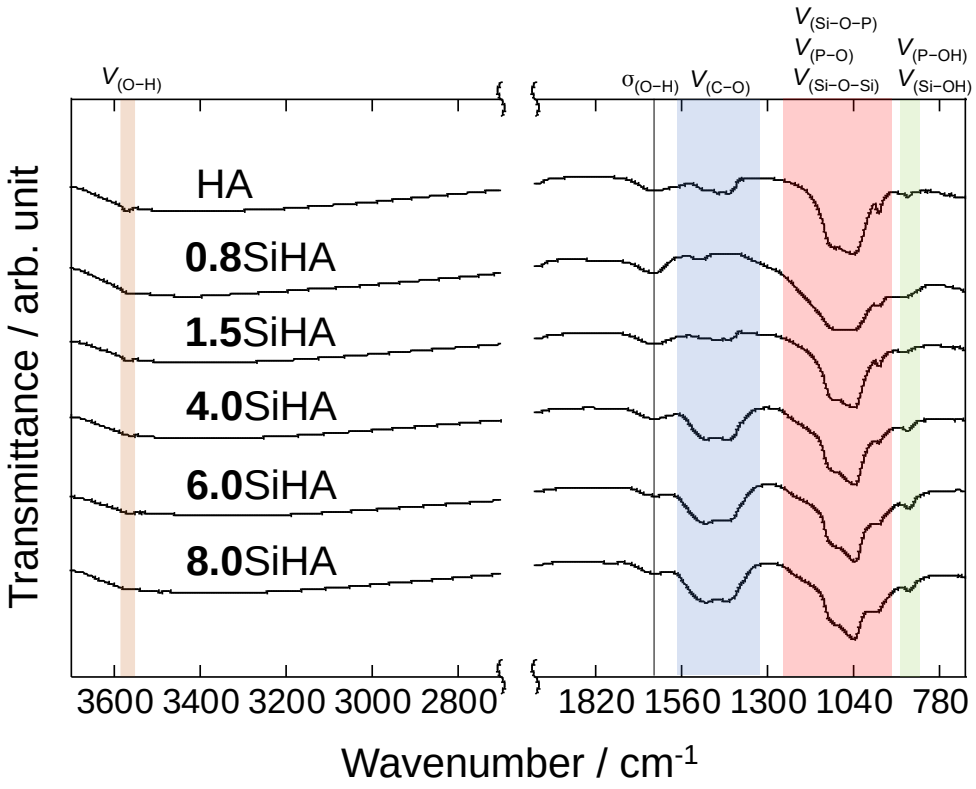


Figure S1. FT–IR spectra of the HA and SiHA particles.

Figure S2

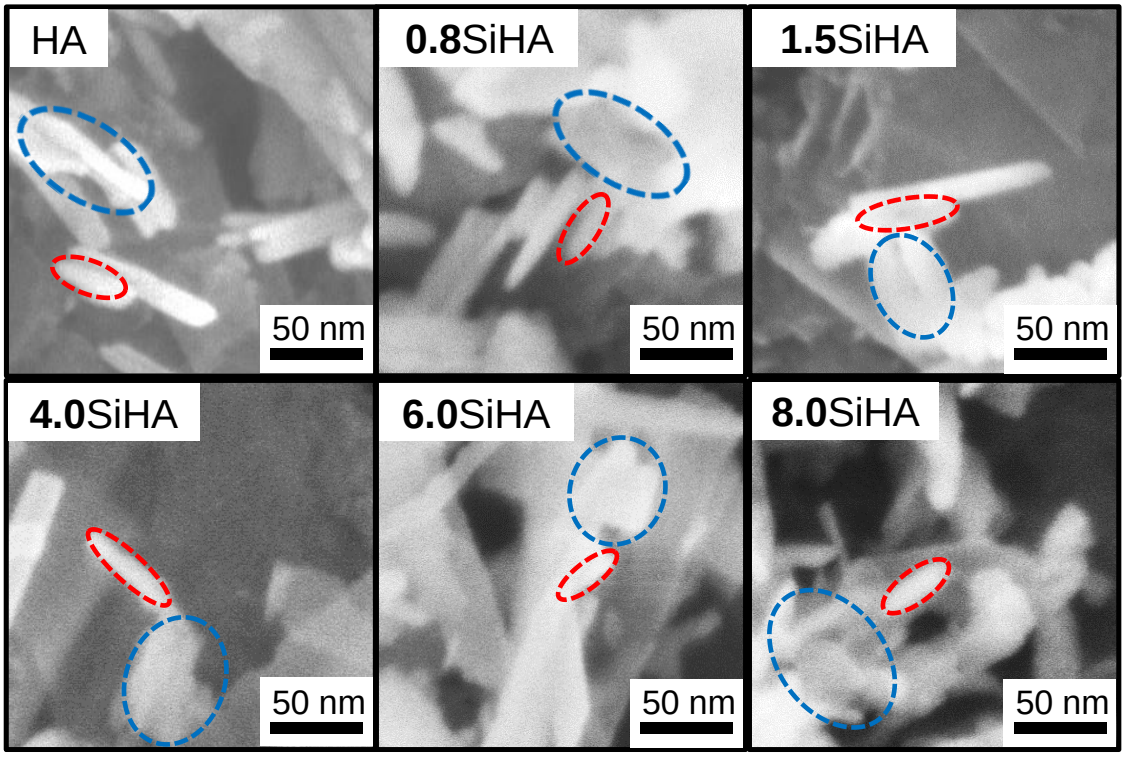


Figure S2. FE−SEM images of the HA and SiHA particles. The red and blue dotted circles indicate the primary and aggregate particles, respectively.