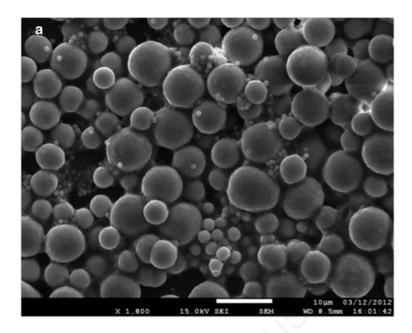
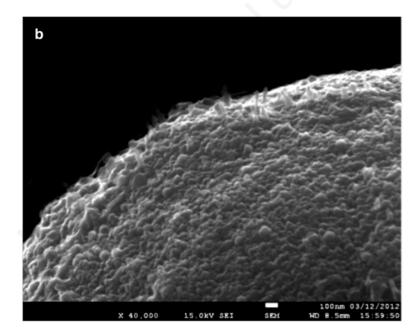
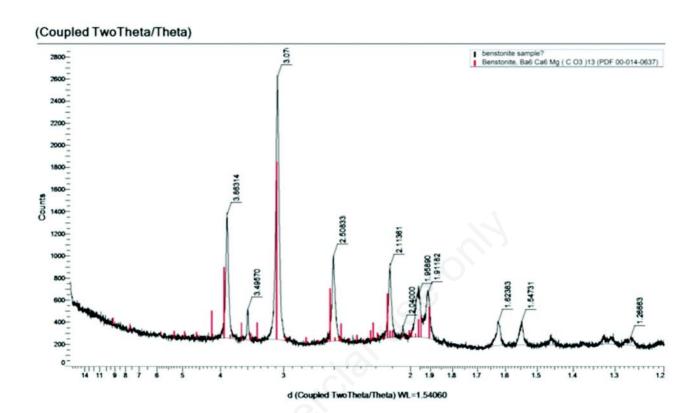
Supplementary Figures.

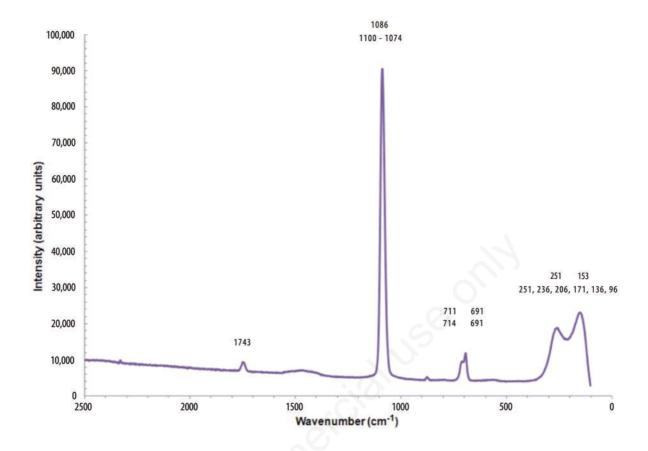




Supplementary Fig. 1. a) Spherical concretions of synthetic benstonite Mg (Ba_{4.5} Sr_{1.5}) Ca₆ (CO₃)₁₃, aged 3 days. Scale bar: 10 μ m; b) close-up on a concretion surface. Scale bar: 100 nm. The concretion consists of individual, spherical (diameter <100 nm), or needle-shaped nanoparticles.



Supplementary Fig. 2. X-ray diffraction diagram of synthetic benstonite (black), with standard [Mg Ca_6 Ba_6 (CO_3)₁₃].



Supplementary Fig. 3. Raman spectrum of synthetic benstonite. Wavenumber of main peaks is compared to those of Ca_7 Ba_6 $(CO_3)_{13}$.