



### $\mu$ -CT imaging 400°C experiment

**FIGURE S5-2.** Reconstructed images and volume renderings of the 400°C experiment (all with 7.2  $\mu\text{m}$  per voxel). (A) Volume reconstruction of the run product shows the uneven distribution of minerals. The orange plane denotes the level of the image slice displayed in (B), the semitransparent rendering of the particle shows the location of the volume of interest used for porosity determination (C–E). (B) The domains exhibit a distinct distribution of pores and minerals. (C) Combined volume rendering of solid phases and the labeled pore space model. (D) Labeling of the pore space reveals the spread of connected voids. (E) Visualization of the unlabeled pore space and the 3D models of the different domains  $\alpha^*$ ,  $\beta^*$ ,  $\gamma^*$ ,  $\delta^*$ .