



Fig. S4 Raman characterization of MgO reacted in vapor for 150°C for 2 days. Two different locations on the sample were measured. a) and c) show light microscopy images of the measurement position, which is in the center of the image. b and d show Raman spectra with peak positions typical for brucite at 278 and 443 cm^{-1} matching literature data.⁸