

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Change in scattering intensity for all ten patches in the plug-flow reactor. The first and second row correspond to patch 1-5 and 6-10 in Figure 2b, respectively. Color scale corresponds to scattering intensity difference compared to the first frame of the measurement, $\Delta\text{Scattering}(t) = I_{xy}(t) - I_{xy}(t=0)$. Note the blinking particles during the catalytically active time period. For reference cf. Figures 5 & 6d.