

# Supplementary information

## In-Situ planarization of Huygens metasurfaces by nanoscale local oxidation of silicon

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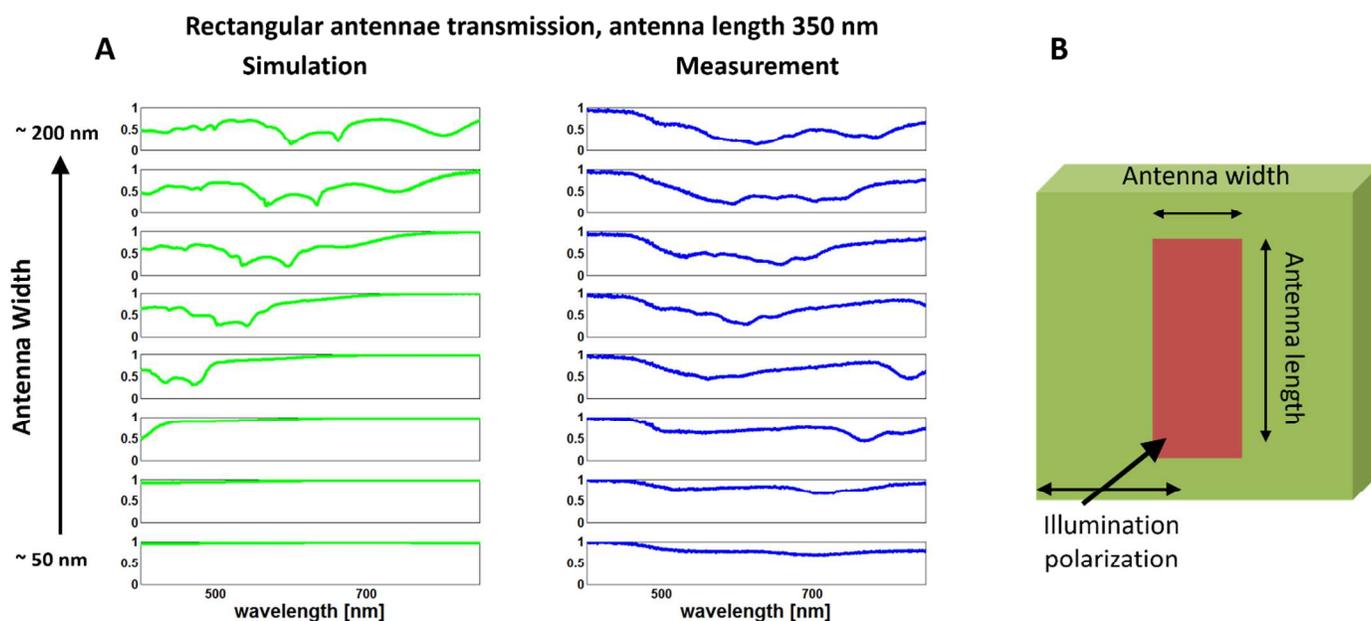


Figure S 1. Rectangular antennas illuminated by light polarized parallel to their short axis. (A) (left) transmission spectra as simulated by FDTD. (right) Measured spectra. Here, the antenna resonances are in the visible/NIR regimes, and resonant behavior is affected with material absorption, therefore the modes are difficult to resolve, being identified best for larger antenna widths, where they are red-shifted out of the high-absorption in short wavelengths. (B) illustration of the geometry of this experiment. Clearly, the absorption spectrum is very different as compared to the spectrum reported for the orthogonal polarization (Fig. 9 of the main text).