Video S1: LEEM video of h-BN islands oxidized in O₂. Oxidation conditions: temperature = 400°C, P(O₂) = 1 × 10⁻⁶ Torr. Image conditions: STV = 2.0 V, FOV = 50 μm. The whole oxidation process lasted for 21 min.

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Video S2 PEEM video of full layer h-BN intercalated in NO$_2$.

Intercalation conditions: temperature = 140°C, P(NO$_2$) = 5 × 10$^{-7}$ Torr.

Image conditions: FOV = 50 μm. The whole oxidation process lasted for 2 min 30 s.