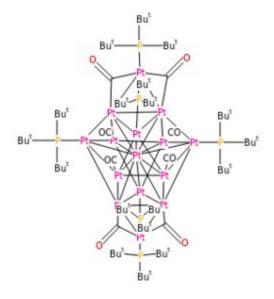
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Supplementary information:

## Controlling dark catalysis with quasi half-cycle terahertz pulses

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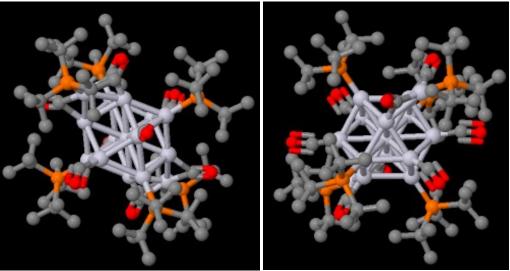
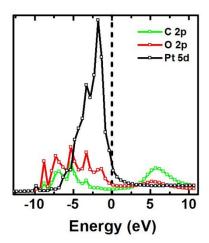
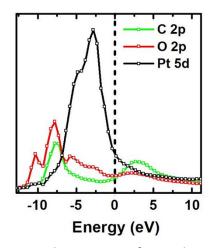


Figure S1: Schematic representation of original cluster used for the experiments.<sup>i</sup>



**Figure S2:** Ground-state LDOS for Pt cluster with 1 CO molecule adsorbed on atop position.



**Figure S3:** Ground-state LDOS for Pt cluster with 4 CO molecules adsorbed on atop position and 4 CO molecules on bridge position.

## **References:**

<sup>&</sup>lt;sup>i</sup> J. A. K. Howard, J. L. Spencer, D. G. Turner, J. Chem. Soc. Dalton Trans. 1987, 259.