Electronic Supplementary information

Characterization of an activated iridium water splitting catalyst using infrared photodissociation of H₂ tagged ions.

Etienne Garand, Joseph Fournier, Michael Z. Kamrath, Nathan D. Schley, Robert H. Crabtree and Mark A. Johnson

Sterling Chemistry Laboratory, Yale University, P.O. Box 208107, New Haven, CT 06520
**Figure S1:** a) $H_2$ predissociation spectrum of $\text{1}\cdot 2H_2$ and calculated (cam-B3LYP/SDD/6-311++G(d,p) level) structures and harmonic spectra of b) bare $\text{1}$, c) $\text{1}\cdot H_2$