Supplementary Information

Silica-Supported Tantalum Clusters: Catalyst for Alkane Conversion

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Supplementary Fig. 1. EXAFS $k^2$-weighted spectrum of the sample treated in flowing H$_2$ at 523 K (solid line) and the fit (dotted line).

Supplementary Fig. 2. Fourier transform of the EXAFS spectrum of the sample treated in flowing H$_2$ at 523 K (solid line) and the fit (dotted line). Panel A is the $k^1$-weighted Fourier Transform; panel B is the $k^3$-weighted Fourier transform.
Supplementary Fig. 3. EXAFS $k^3$-weighted spectrum of the sample treated in ethane at 523 K (solid line) and the fit (dotted line).

Supplementary Fig. 4. Fourier transform of the EXAFS spectrum of the sample treated in ethane at 523 K (solid line) and the fit (dotted line). Panel A is the $k^1$-weighted Fourier Transform; panel B is the $k^3$-weighted Fourier transform.