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Supplemental Material

A. Fourier transformed (a) and k^3-weighted W L_{III}-edge EXAFS function ($k^3 \cdot \chi(k)$) (b) of the Ni-WO_3/Al_2O_3-F catalyst sulfided at 400°C. Measured data — and curve fitting results ---.

B. Fourier transformed (a) and k^3-weighted W L_{III}-edge EXAFS function ($k^3 \cdot \chi(k)$) (b) of the Ni-ATT/Al_2O_3 catalyst sulfided at 400°C. Measured data — and curve fitting results ---.

C. Fourier transformed (a) and k^3-weighted W L_{III}-edge EXAFS function ($k^3 \cdot \chi(k)$) (b) of the Ni-ATT/Al_2O_3-F catalyst sulfided at 400°C. Measured data —— and curve fitting results ---.

D. Fourier transformed (a) and k^3-weighted Ni K-edge EXAFS function ($k^3 \cdot \chi(k)$) (b) of the Ni-WO_3/Al_2O_3-F catalyst sulfided at 400°C. Measured data —— and curve fitting results ---.

E. Fourier transformed (a) and k^3-weighted Ni K-edge EXAFS function ($k^3 \cdot \chi(k)$) (b) of the Ni-ATT/Al_2O_3-F catalyst sulfided at 400°C. Measured data —— and curve fitting results ---.

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F. Fourier transformed (a) and k^3- weighted W L_{III}-edge EXAFS function ($k^3 \cdot \chi(k)$) (b) of the Ni-WO_3/Al_2O_3 (RT) catalyst sulfided at 400°C. Measured data —— and curve fitting results --- .

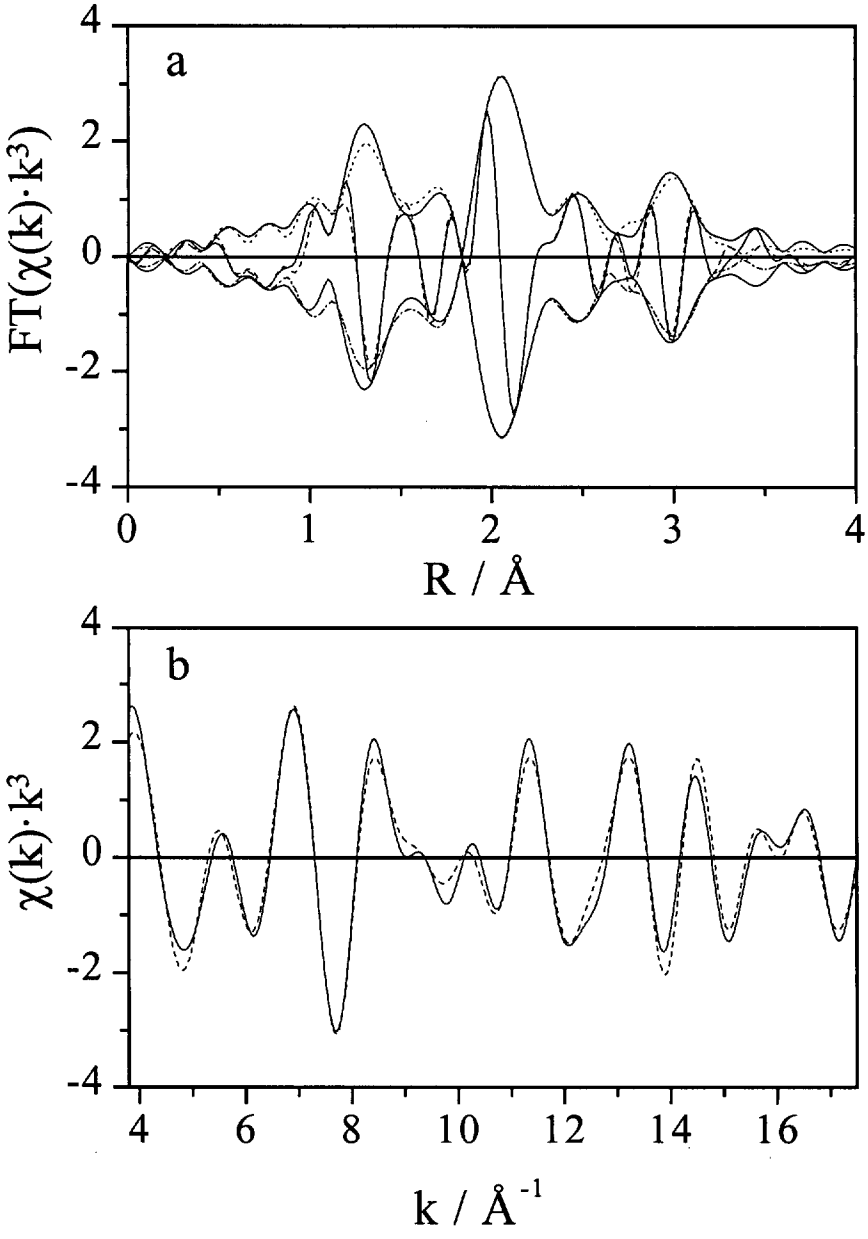

Figure A

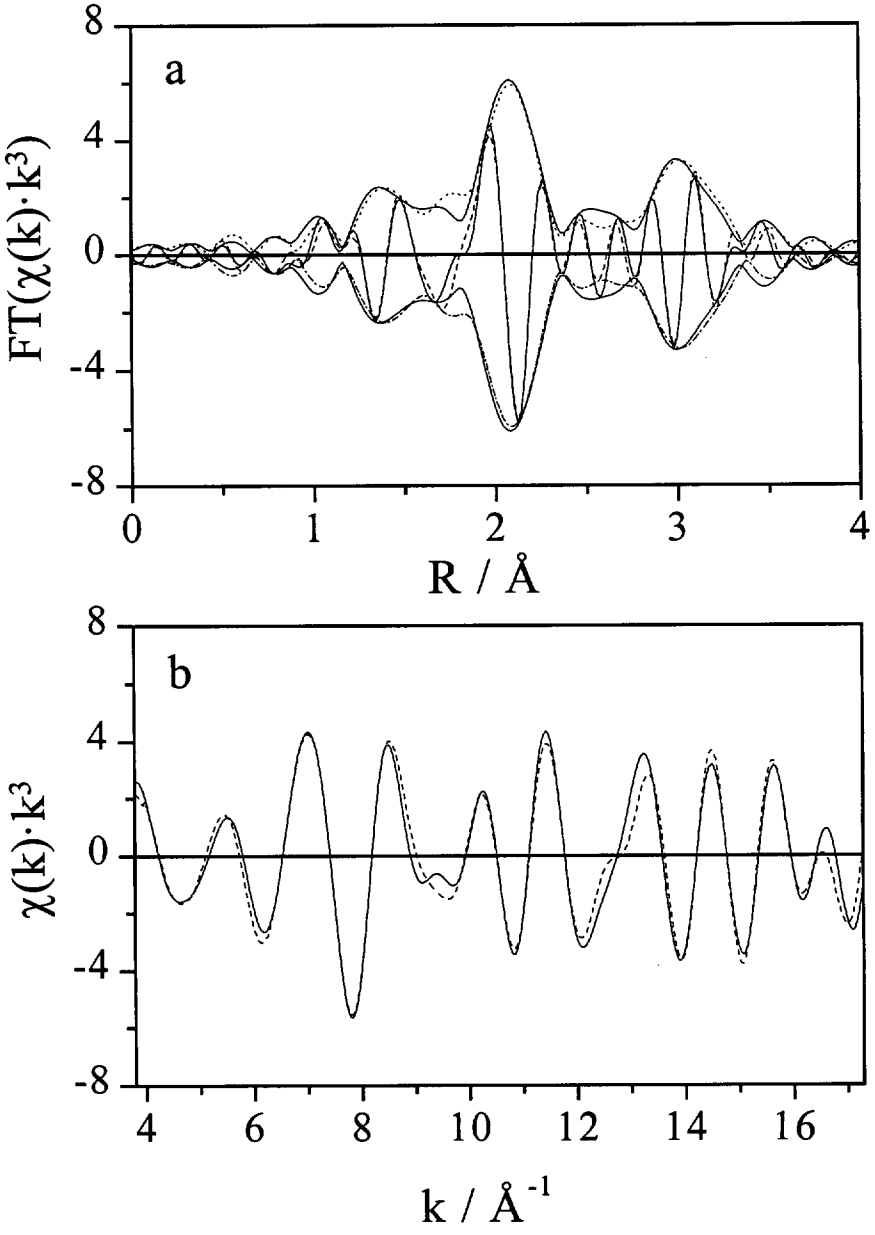

Figure B

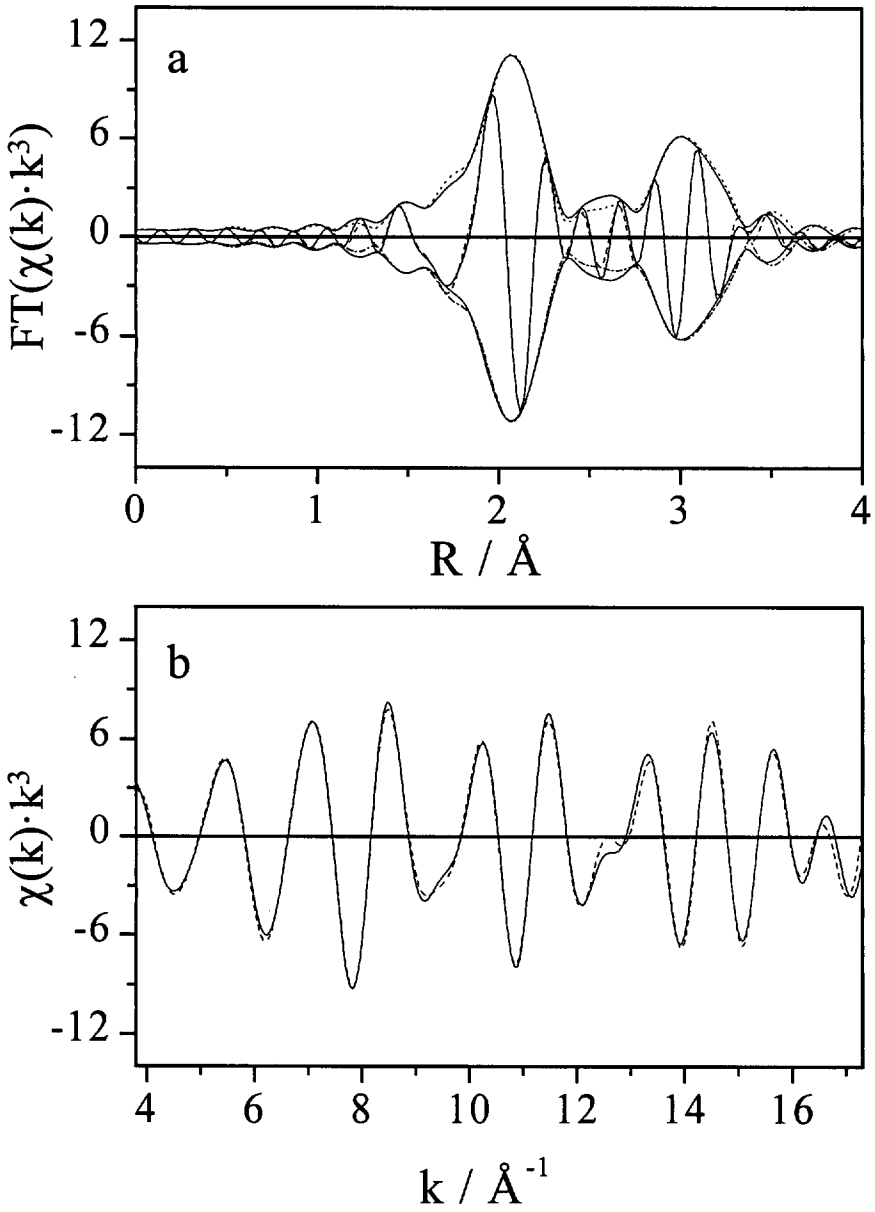

Figure C

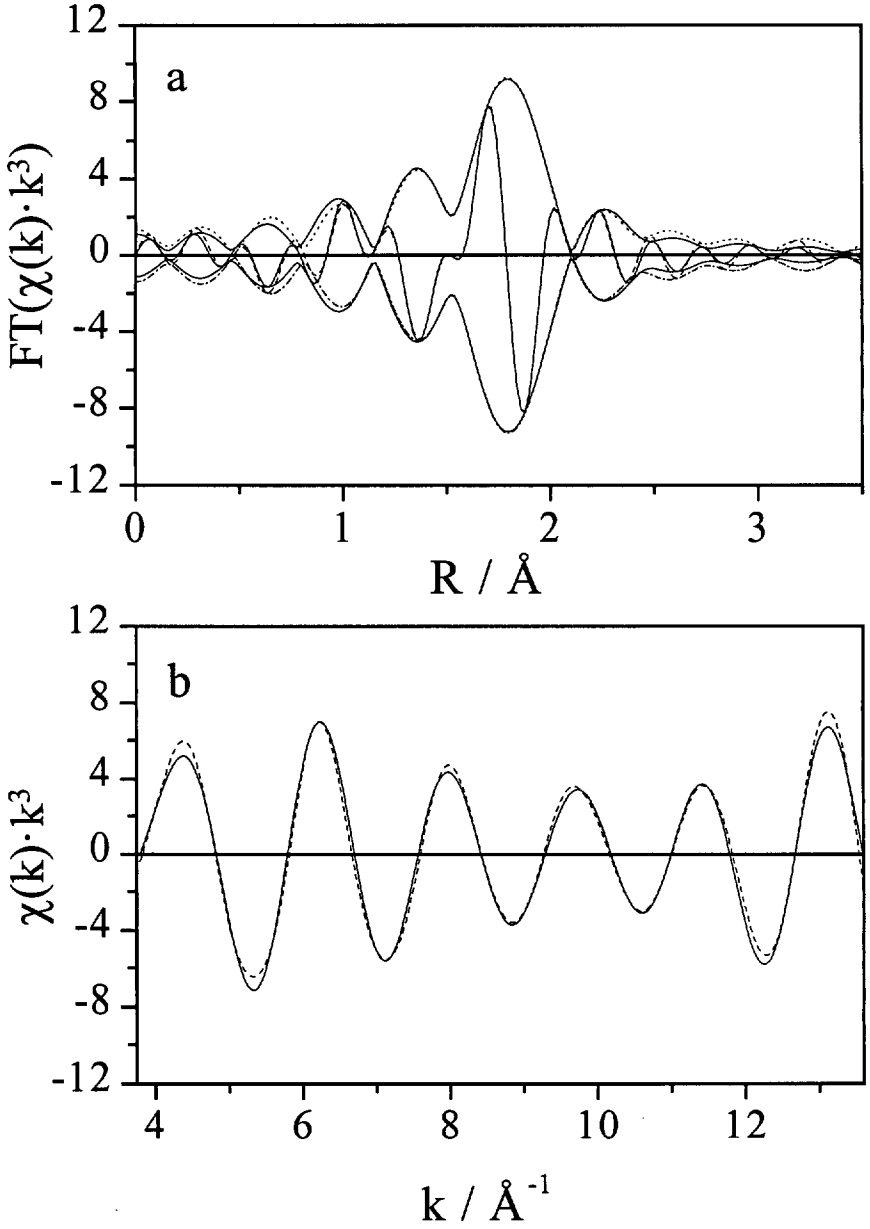

Figure D

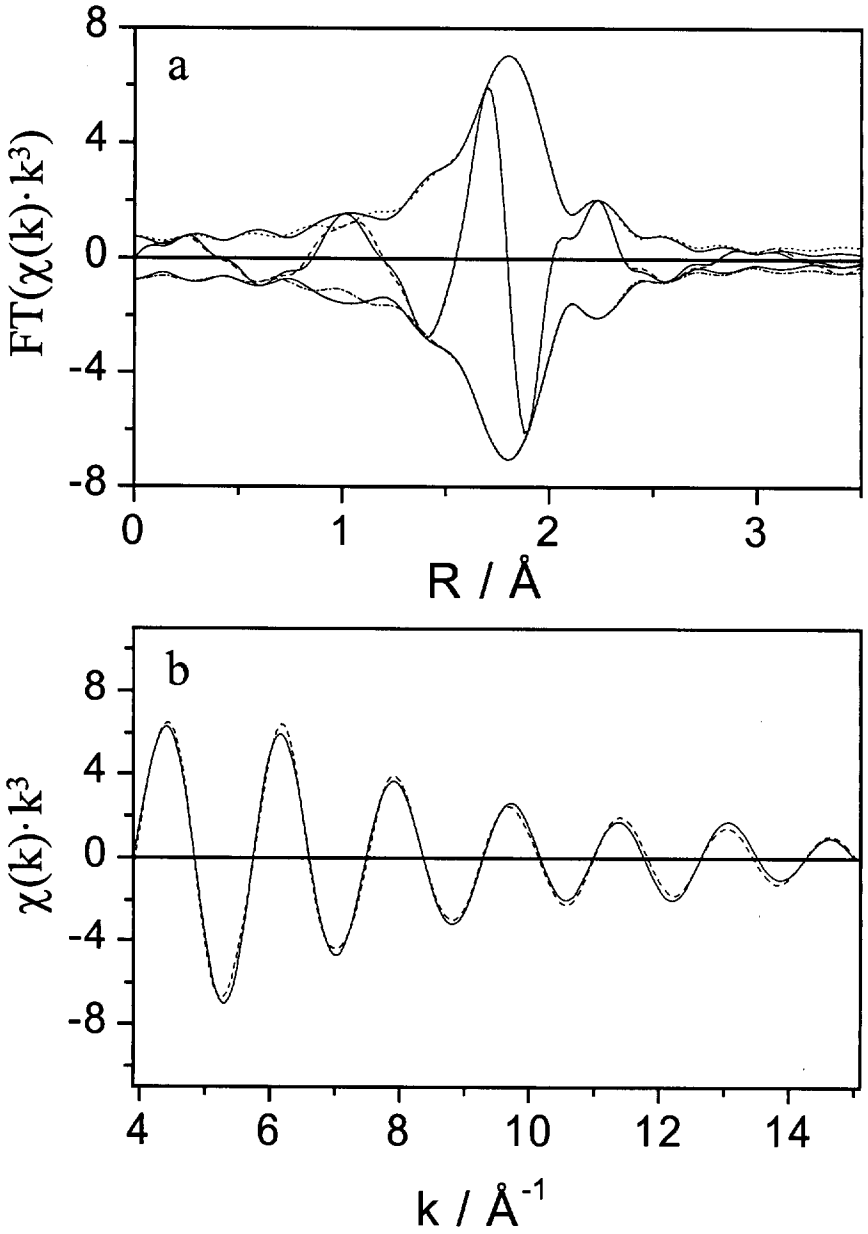

Figure E

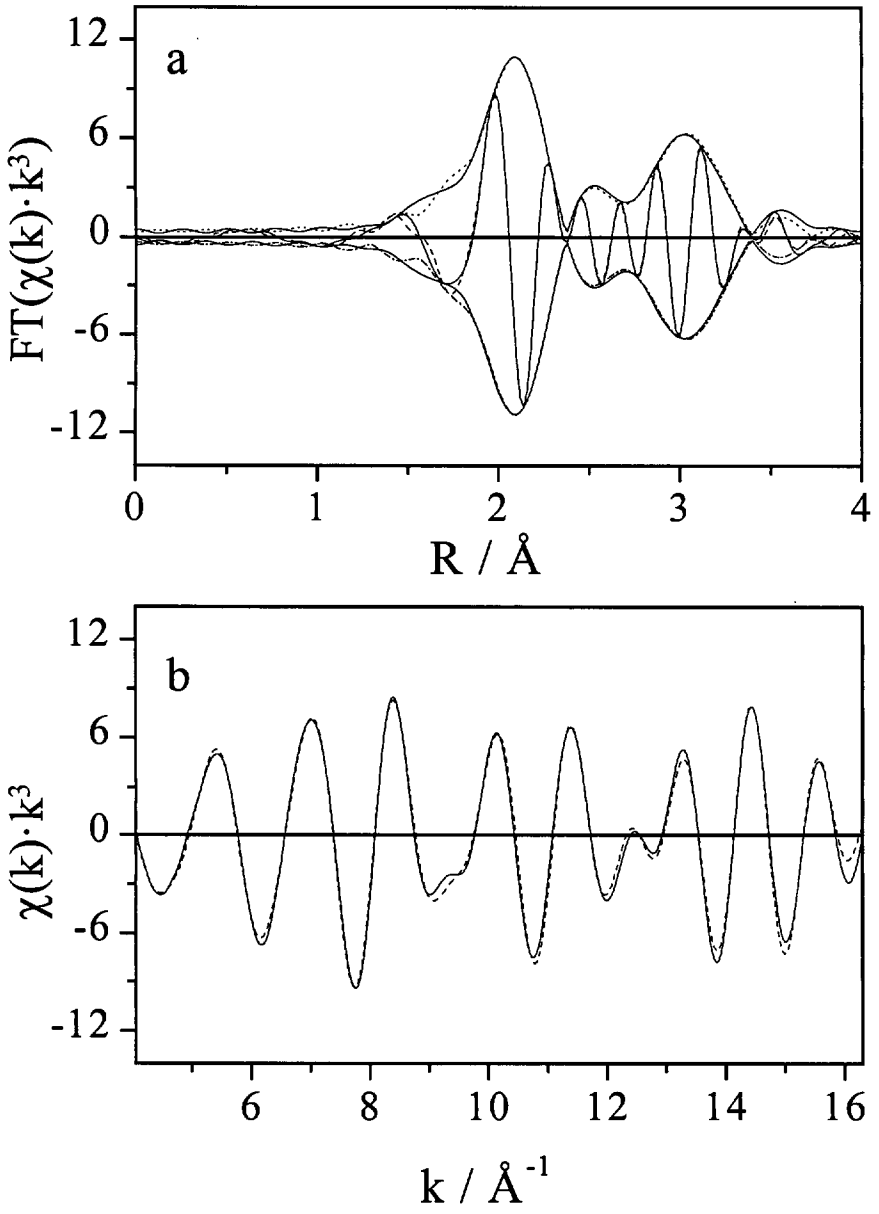

Figure F