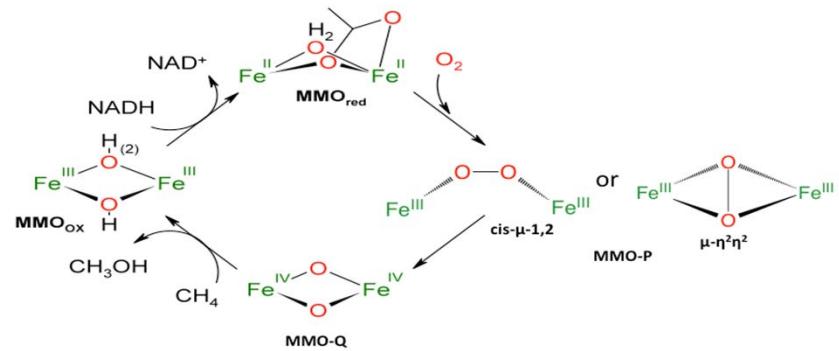
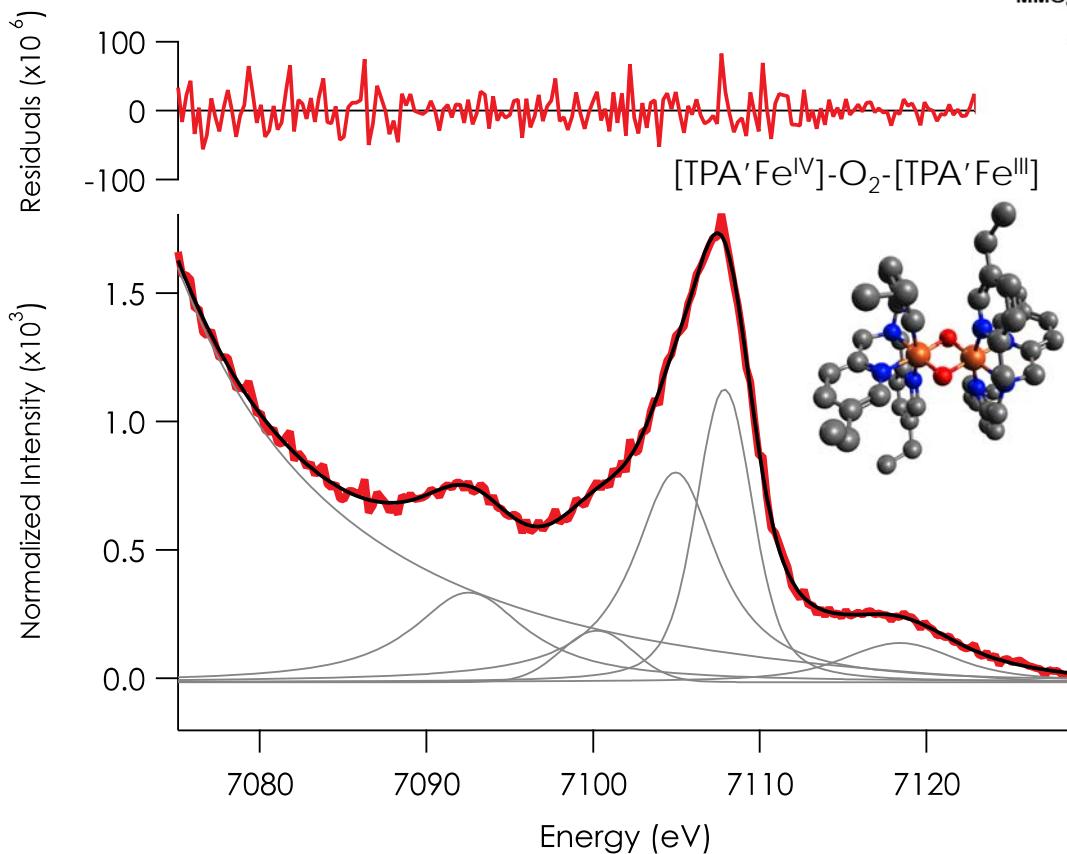


Molecular mechanism of methane to methanol conversion in soluble methane monooxygenase

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Our goal is to use XES to obtain insight into the mechanism of methane to methanol conversion by methane monooxygenase (MMO).



Preliminary model studies of binuclear iron complexes show that XES provides a direct probe of the Oxygen 2s-based molecular orbitals, providing a direct probe of Fe-O₂ intermediates.