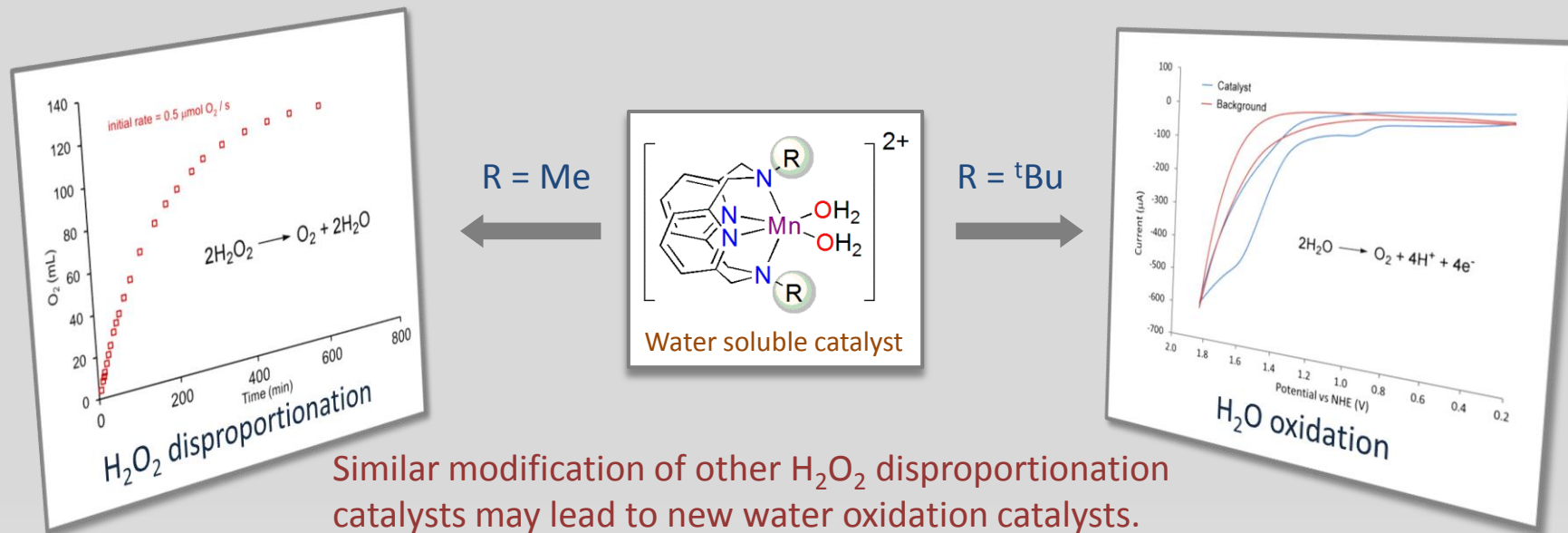


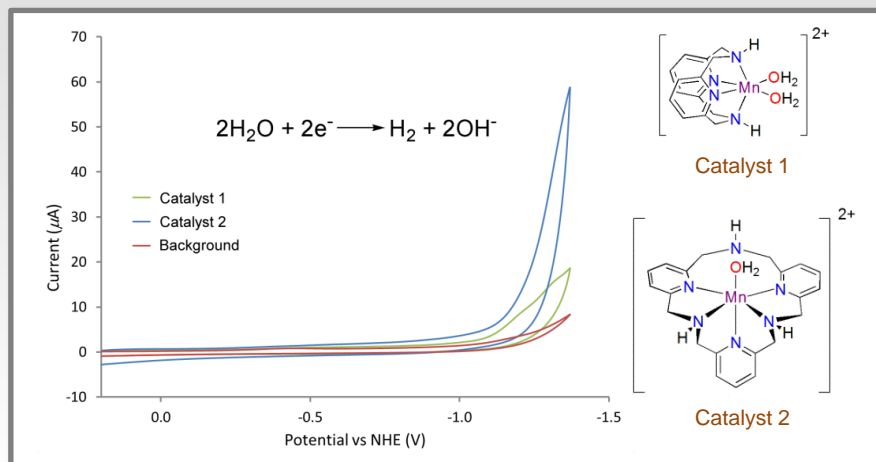
Electrocatalytic Water Oxidation by Manganese Pyridinophane Complexes

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Transformation of a H_2O_2 disproportionation catalyst into an H_2O oxidation catalyst



Electrocatalytic H_2O reduction



- Aqueous phase electrocatalytic water reduction by catalysts containing inexpensive and abundant elements.
- N-H groups are critical to H_2O reduction catalysis.