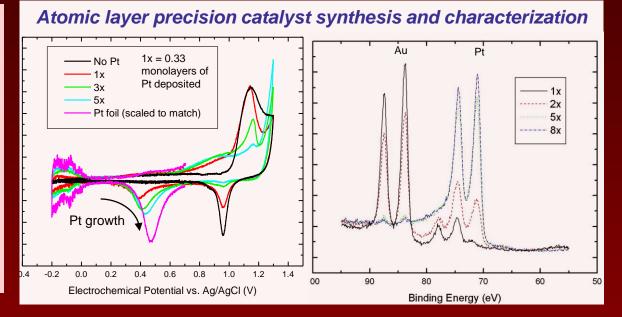
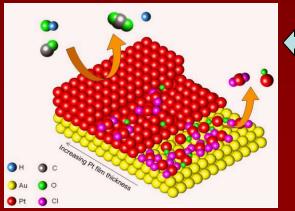
Effect of Surface-to-Bulk Atomic Structure on Surface Electronic Structure in Multicomponent Catalysts

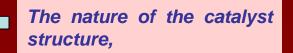
Faisal M. Alamgir, School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, GA 30332

Layer by layer design of Catalyst surface: Nearsurface compositional architecture in catalyst systems fundamentally shapes their properties. We designed Pt monolayer catalysts with atomic layer precision.

At each stage we correlated the atomic and electronic structure to the catalytic properties.

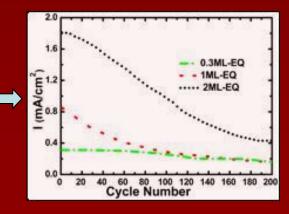






and consequently its catalytic properties

change dramatically from sub-monolayer and 1 and 2 monolayers!



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