

Synchrotron Based Techniques for Fuel Cell Applications

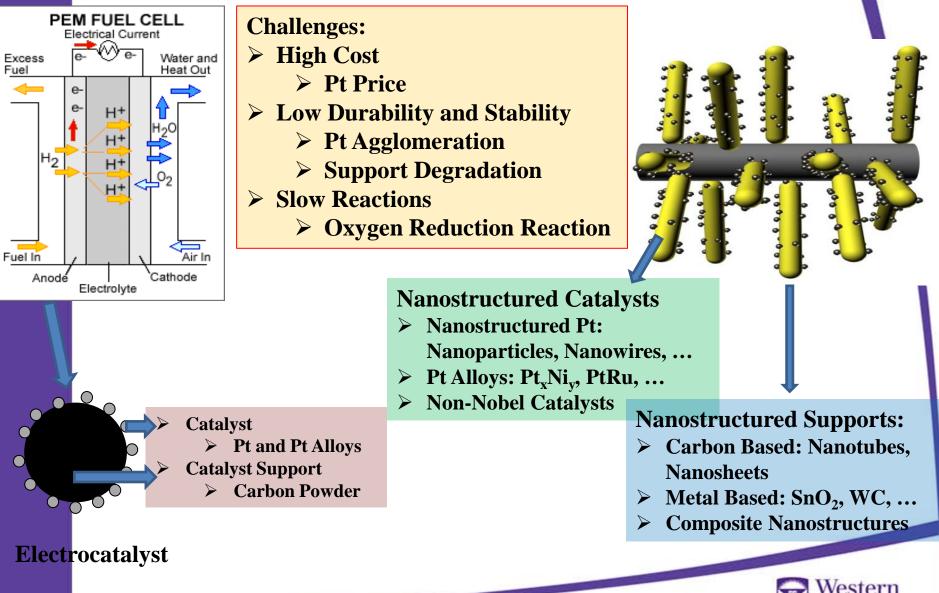
Mohammad Norouzi Banis

Western S Engineering

Research Background

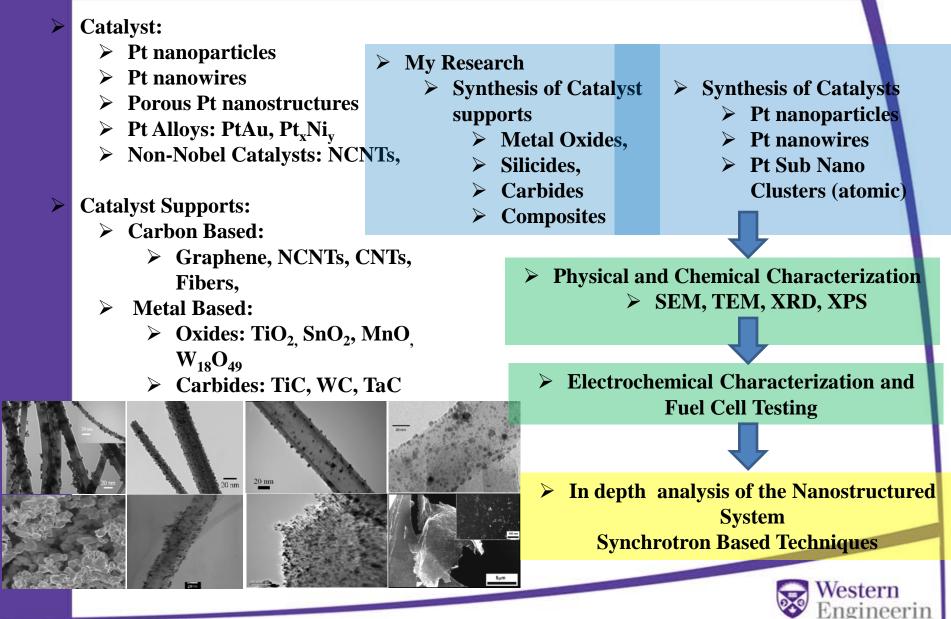


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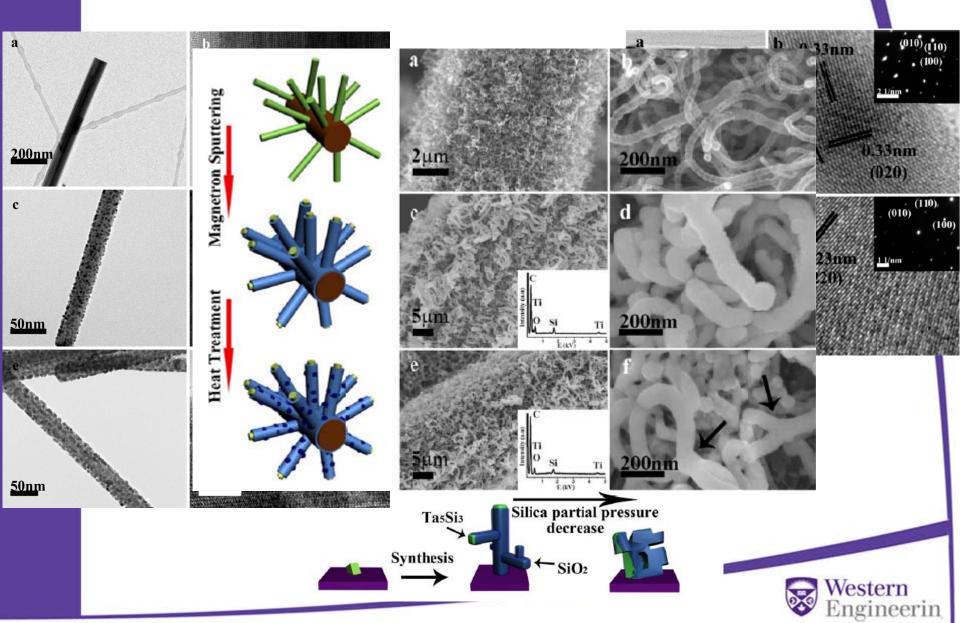
Fuel Cell in Dr. Sun's Group



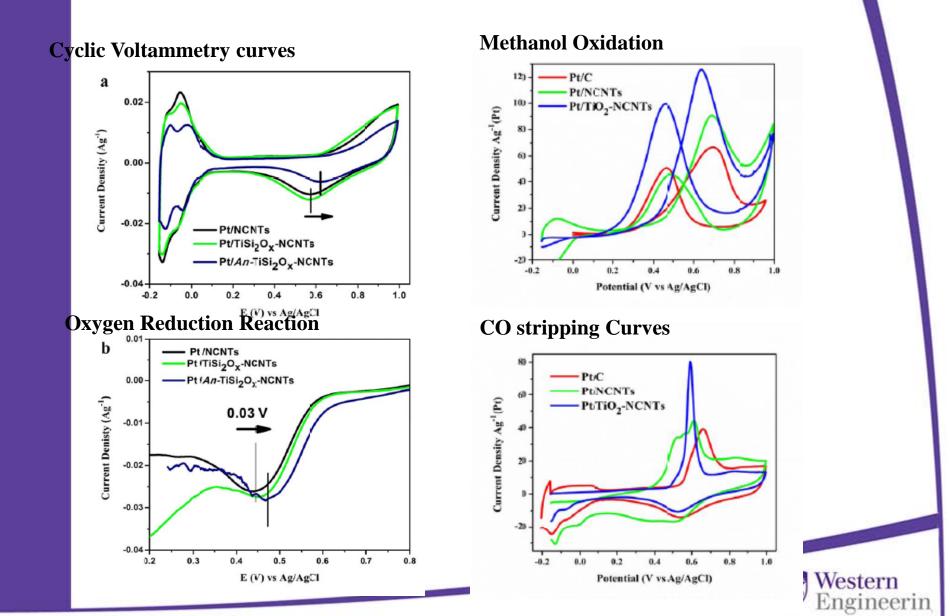


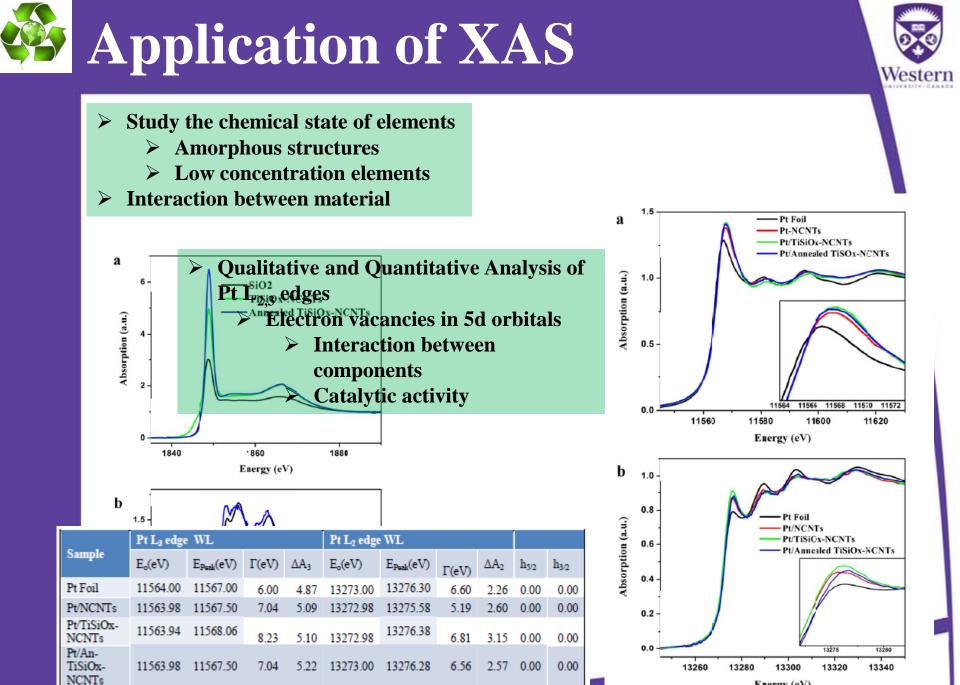
Synthesis of Nanostructures





Electrochemical Characterizati





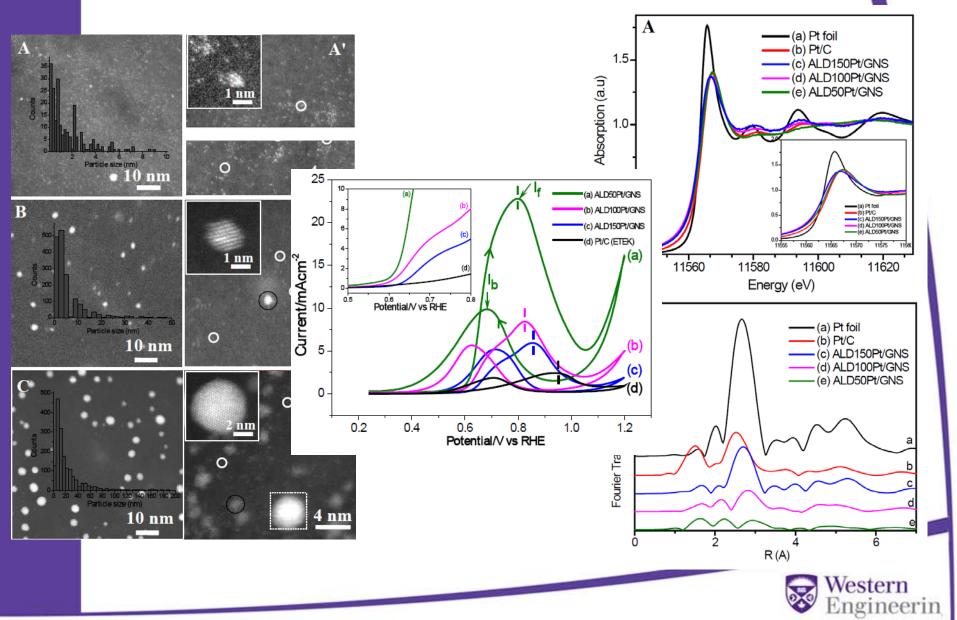
Energy (eV)

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Energy (eV)

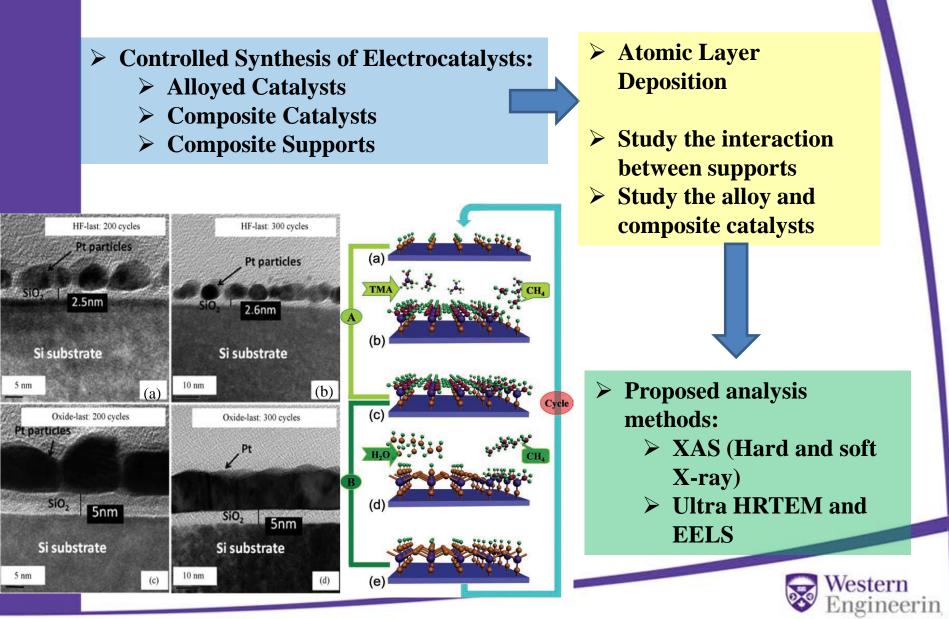






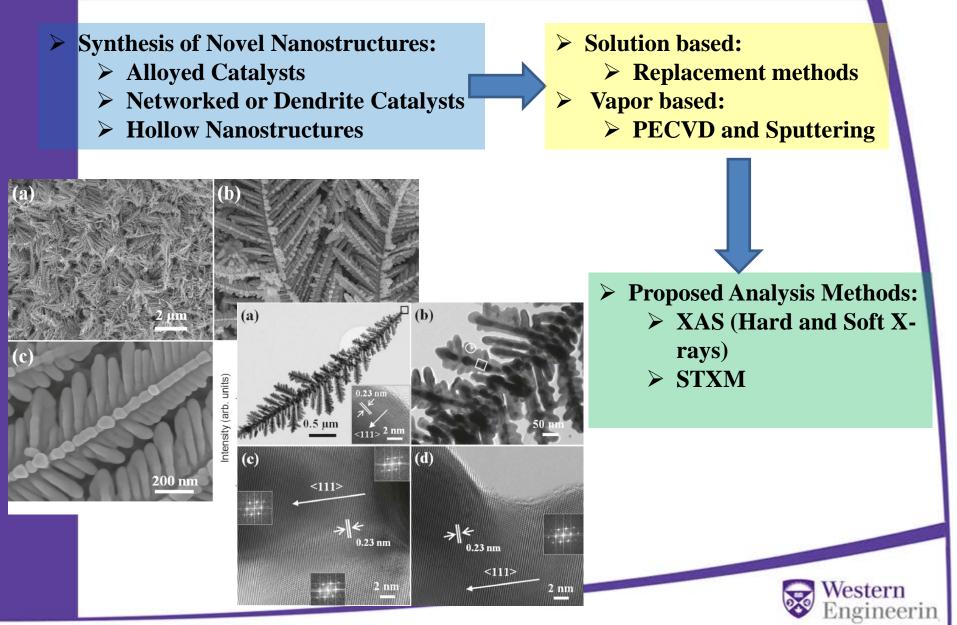
Future Opportunities





Future Opportunities









- Application of Nanomaterials to Fuel Cell Challenges
 Interdisciplinary Research Field
- Synthesis and Characterization of Nanomaterials
 Electrochemical and Fuel Cell testing
- In Depth Study of Electrocatalyst Structure
 Understanding the Underlying Mechanisms
 Optimizing the Electrocatalysts Structure
- New Opportunities:
 Atomic Layer Deposition
 Replacement and PECVD Methods





Thank You

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