

# ADVANCED MATERIAL PROCESSING RESEARCH LABORATORY (AMP)

ห้องวิจัยกระบวนการวัสดุขั้นสูง

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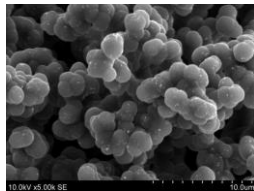
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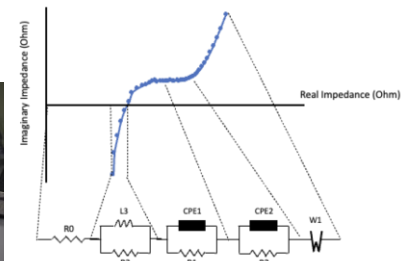
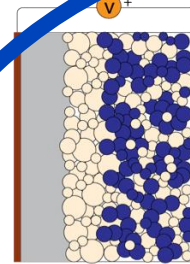
## Research Areas



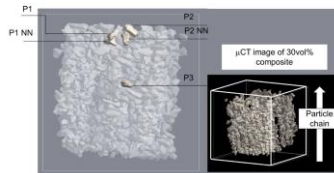
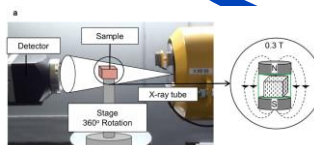
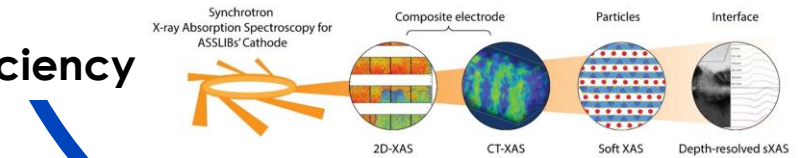
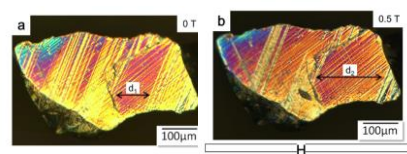
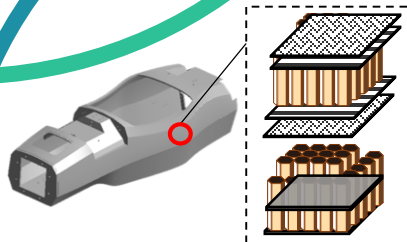
- Biocoke (Bio-solid Fuel) Technology
  - Porous Carbon and Nanoporous Materials
  - Composite Materials



- Lithium-ion Batteries Evaluation
- Synchrotron X-ray Techniques



## Materials for Energy Efficiency



- Carbon Fiber Reinforced Materials
- Shape Memory Alloys



## Research Highlight

- Development of Biocoke from Bio-solid Waste for Industrial Utilization (Collaboration Project between Thai-Nichi Institute of Technology & Kindai University)
- Multi-scale operando observation of inhomogeneous reaction in electrode for solid-state batteries
- Development of Battery Monitoring System by using Electrochemical Impedance Spectroscopy
- Lightweight materials design and strength analysis using finite element method
- Shape memory alloys for sensors and actuators



## Research Collaborations Network

