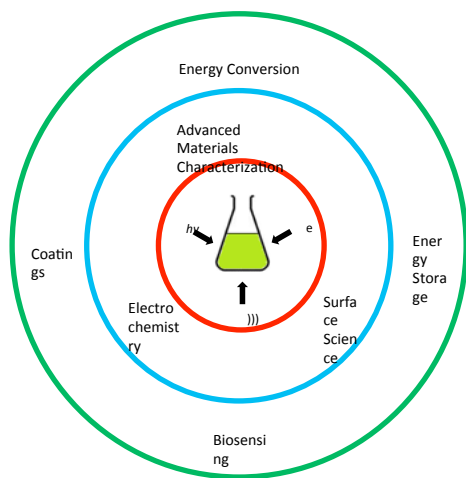


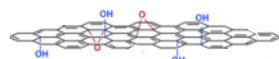
# Zhong Research Group



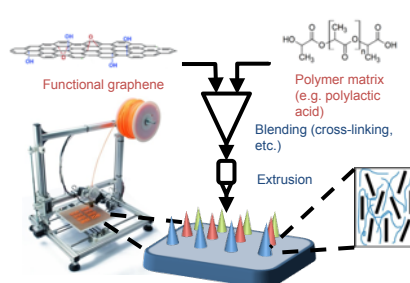
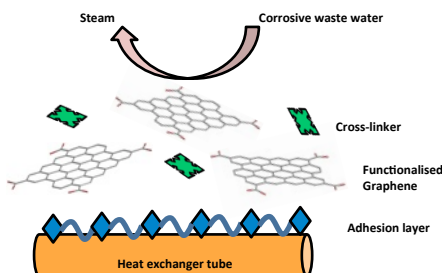
Graphite Flakes (before electrochemical treatment)



EGO (after electrochemical treatment)



Electrochemically-derived Graphene Oxide (EGO)



## Lead Scientist

**Dr Yu Lin Zhong**  
ARC DECRA Fellow

## Research Expertise

Nanomaterials &  
Nanocomposites Synthesis  
& Characterisation

Surface Chemistry, Surface  
Science & Synchrotron-  
based Characterisation

Electrochemistry,  
Electrochemical  
Engineering and Analytical  
Techniques

## Key Contact

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<https://sites.google.com/site/yulinzhong/>

## Applications

Anti-corrosion graphene  
coatings with excellent  
thermal transfer:

- Thermal desalination of industrial waste water
- Radiator fins operating at harsh conditions

Transparent conductive  
graphene + nanowires  
coatings:

- Solar cell electrodes

Graphene + battery  
cathode materials  
nanohybrids:

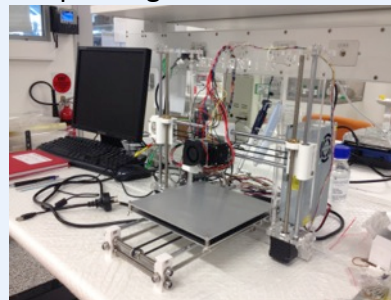
- High power & density lithium ion battery

Conductive Graphene +  
polymer nanocomposites  
for 3D printing

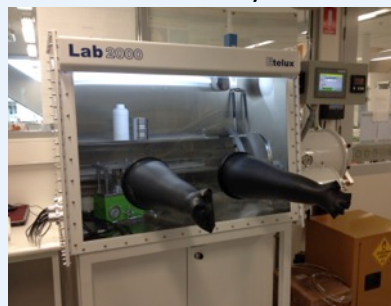
- Electrode arrays
- Bio-implants

## Research Facilities

### 3D printing



### Lithium ion battery research



### Electrochemical testing

