

# Mechanical Engineering Doctoral Defense

## Food Based Edible Electronics

School for Engineering of Matter, Transport and Energy

**Haokai Yang**

Advisor: Hanqing Jiang, and Hongbin Yu

### Abstract

A new class of electronic materials from food and foodstuff was developed to form a “toolkit” for edible electronics along with inorganic materials. Electrical components like resistors, capacitors and inductors were fabricated with such materials and tested. Applicable devices such as filters, microphones and pH sensors were built with edible materials. Among the applications, a wireless edible pH sensor was optimized in terms of form factor, fabrication process and cost.



April 16, 2021; 9 AM;

Zoom Link: <https://asu.zoom.us/j/85048135239>