

# Graphene Oxide in Supercapacitors and Fuel Cells

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**Abstract:**

Graphite oxide (or graphene oxide, abbreviated as GO), once noted as an important precursor to graphene in the last decade, has now established its own research field apart from that of graphene. Literatures regarding its synthesis, chemical structure, reactivity, properties, and multiple applications have boomed in the past few years. In this talk, I will introduce my contributions on the structure, reduction and degradation of GO. More importantly, I will demonstrate the great potential that GO derivatives possess as proton conductors in hydrogen-air fuel cells and supercapacitors.