Plasma Synthesis and Photoinduced Passivation of Aluminum Nanoparticle  
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- **DESCRIPTION OF WORK**
  - Synthesis of aluminum nanoparticle using thermal plasma
  - Photoinduced hydrocarbon coating of aluminum nanoparticle

- **MAJOR OBSERVATIONS**
  - TEM and EDS of produced aluminum nanoparticles

- **Publications**

Schematic of system for synthesizing and characterizing aluminum nanoparticles.

TEM image of Al particles deposited onto TEM grids.

EDS analysis of particle elemental composition. Shaded peaks are from the background signal due to the C-coated Si$_3$N$_4$ TEM grid.