

Electron collision cross sections of molecules relevant to plasma processing

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Absolute electron-impact cross sections for molecular targets including their radicals are important in developing plasma reactors and testing various plasma processing gases. However, low-energy electron collision data for these gases are sparse and only the limited cross section data are available. In this presentation, the methods and the status of measurements of, mainly, absolute elastic cross sections for electron-polyatomic molecule collisions will be discussed with recent results from Chungnam National University. Elastic cross sections are essential for the absolute scale conversion of inelastic cross sections, as well as for testing computational methods.