

Fuel Cell Research

Fuel cells were first conceived in 1838 by Swiss scientist Christian Schönbein; the first fuel cell was developed by Welsh scientist Sir Willian Grove in 1843. The first practical applications of fuel cells came in the 1960s for the U. S. space program. Ongoing environmental concerns and energy research have fueled renewed interest in hydrogen generation and hydrogen storage as technologies required for clean, portable energy. Quantifying the hydrogen storage capacity of new materials is a key technology for predicting the performance in a fuel cell or hydrogen storage device.

Micromeritics Analytical Services is now equipped to offer hydrogen adsorption isotherms as a standard analytical service. Typical reports include the gas adsorption isotherm, the weight percent of hydrogen and the Pressure Composition Isotherm.

To the right are samples previously run in our laboratory for hydrogen storage capacity.

