



The diagram illustrates a plasma etching process. It features a yellow oval at the top labeled 'Methane-Hydrogen-Plasma'. Below this is a gray rectangular layer labeled 'Diamond film', which sits on top of a blue rectangular layer labeled 'Si substrate'. Two blue curved arrows originate from the 'Si substrate' layer and point upwards into the 'Methane-Hydrogen-Plasma' region, one on the left and one on the right. To the right of these arrows, the text 'Si plasma etching and diffusion' is written in blue.

**Methane-Hydrogen-Plasma**

**Diamond film**

**Si plasma etching  
and diffusion**

**Si substrate**