

Plasma-based reforming of LNG?

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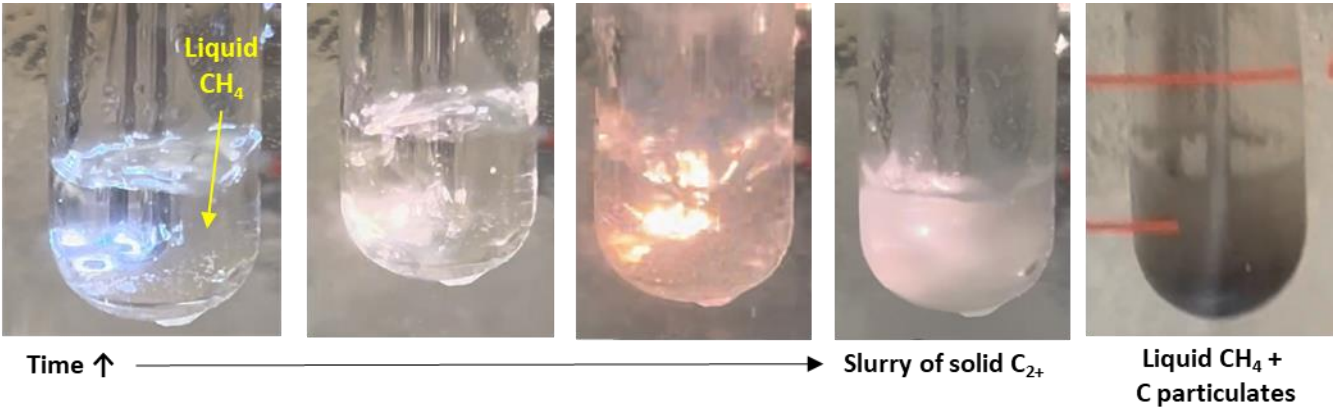


Figure 1: Example of early stages of 60 Hz-excited plasma in liquid methane at $\sim 100K$. A slurry of frozen C_{2+} products forms at short times and solid carbon particulates are later formed as the plasma on-time is extended (far right).

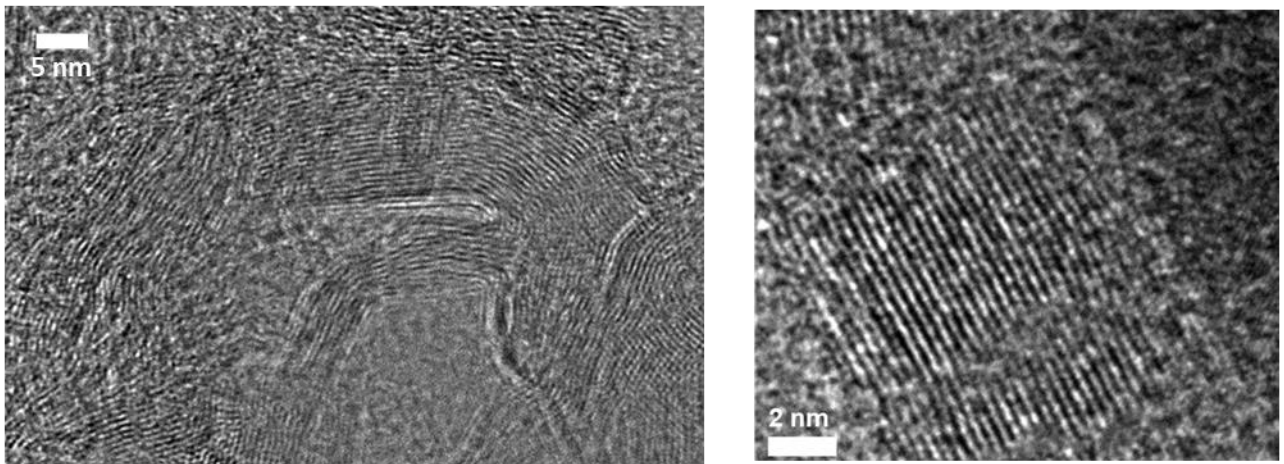


Figure 2: TEM images of graphite-like solid carbon product formed in liquid methane plasma.