

## DLC synthesis method

- It includes ion injection methods, sputtering methods, arc discharge methods, PECVD methods, laser ablation and so on. These methods greatly affect the properties of DML.

Carbon supply	Synthesis method
Solid carbon	Arc ion plating
	Non equilibrium magnetron sputtering (UBMS)
Hydrocarbon based gas (CH <sub>4</sub> , C <sub>6</sub> H <sub>6</sub> , C <sub>2</sub> H <sub>2</sub> )	PECVD (RF/DC/Pulse)
	Ion deposition caused by thermal electronic impacts

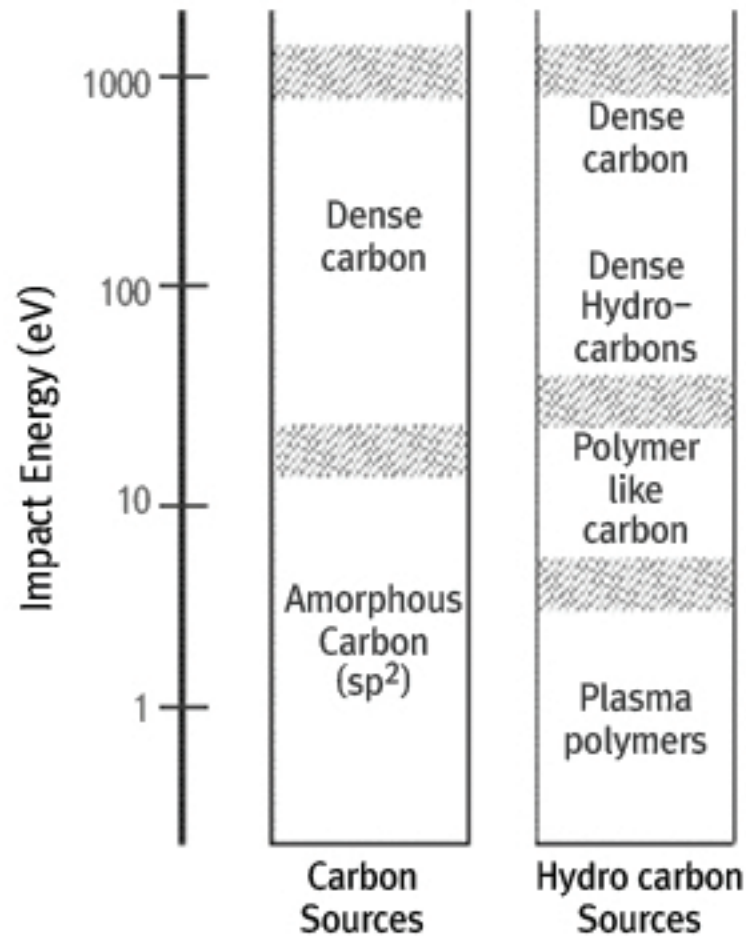


Figure. Layer synthesis with synthesis energy