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# ***Influence of carbon nanomaterials on the properties of Pd/C catalysts in selective hydrogenation of acetylene***

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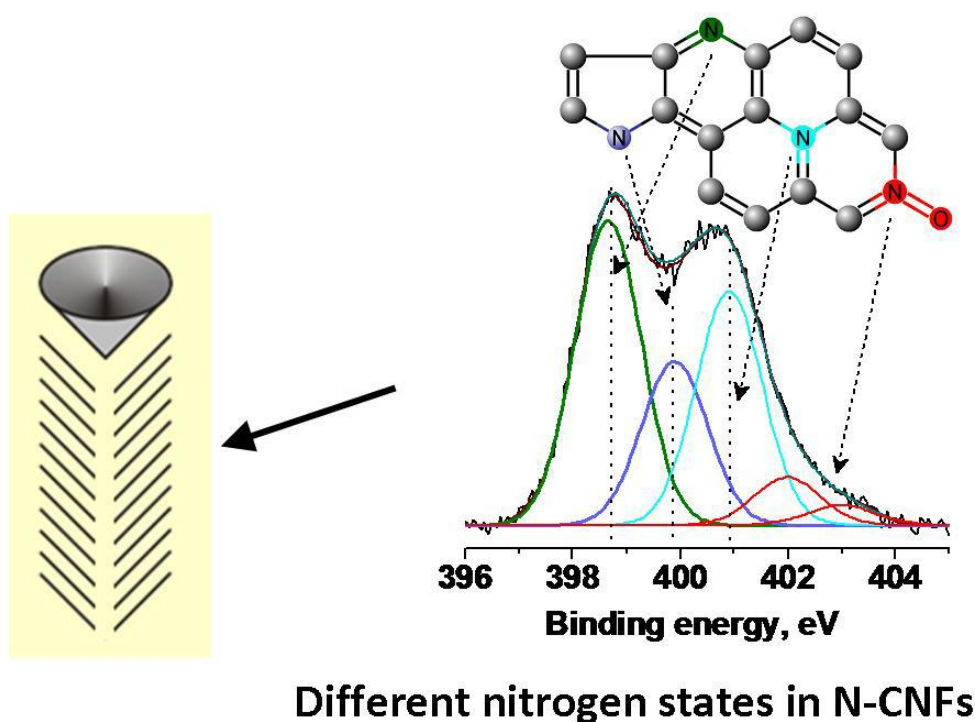
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## **Graphical abstract**



## **Highlights**

The synthesized CNFs and CNTs were used to prepare Pd/C catalysts

CNF structure has a minor effect on hydrogenation selectivity

CNF modification with nitrogen substantially modifies the properties of Pd/N-CNFs catalysts

All Pd/N-CNFs catalysts have 100 % selectivity in acetylene hydrogenation to ethylene

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