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Influence of heating procedures on the surface structure of stabilized polyacrylonitrile fibers

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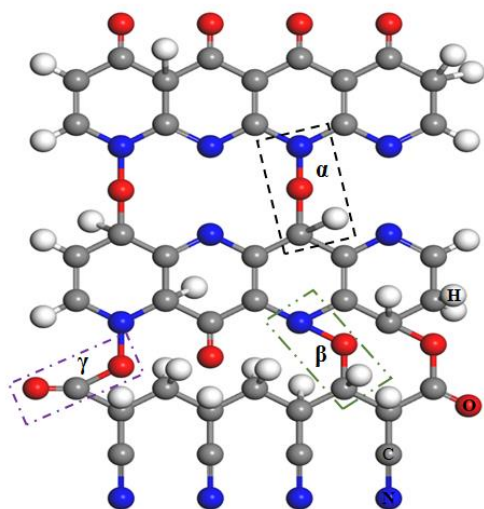
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Graphical Abstract



Highlights

Thermal stabilization process is important for the carbon fibers' production. The thermal treatment temperatures as well as the procedures have an effect on the surface structures and compositions

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