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### Method of Producing Graphene, Carbon Nanodendrites, Nanohexacones and Nanostructured Materials using waste tyres



#### ▶ MORE INFORMATION

##### MEGA-TREND

- Nanotechnology
- Chemicals and Materials

##### TECHNOLOGY READINESS LEVEL (TRL)

- TRL 2

##### PATENT/ GRANTED NUMBER

- MY-150618-A

#### ▶ TECHNOLOGY OVERVIEW

The present invention relates to a method of producing carbon nanomaterials using tyres, characterized by the steps of: thermal decomposition of the tyre to produce coal; grinding the coal to obtain particulates; mixing the particulates with transition metal-based catalyst; and heating the particulates to produce carbon nanomaterials; wherein said carbon nanomaterials comprises graphene, carbon nanostructures including nano-dendrites, nano-hexacones, nanospheres, nano-donuts, nanoparticles and nanorods, or combination thereof.

## CONTACT US!

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