



## Graphene Electrodes - New Functionalities In Molecular Electronic Nanodevices

Rafsa Koyadeen T

*BITS Pilani, Dubai, UAE*

### Abstract:

Introducing graphene as electrode in molecular electronics. Molecular nanodevices can be more efficient with graphene nanoelectrode than metal nanoelectrodes. Graphene electrodes are two types, Graphene nanoribbon(GNR) and Graphene nanoflakes(GNF). Here discussed about the types of graphene electrodes in detail for molecular electronics. Also mentioned great future scope of graphene in nanoelectronics in the very near future.

### Biography:

Rafsa Koyadeen T is pursuing her PhD from Birla Institute of Technology and Science (BITS) Pilani, Dubai Campus in Nanoelectronics/Nanotechnology field. The above work has been done as a part of Rafsa's doctoral research at Birla Institute of Technology and Science (BITS) Pilani, Dubai Campus. It has been published recently in a peer reviewed international Journal: Journal of Nanomaterials in the month of May 2020. She has published 3 recent international journal papers and speaker at international conference held at Cambridge University, UK in 2016.



### Recent Publications:

1. A methodology to simulate and analyse molecules as molecular switches
2. Simulation and Analysis of BDT Molecule with Au Electrodes as a Molecular Switch

[4th Webinar on Nanotechnology and Nanomedicine, November 12, 2020, London, UK](#)

**Citation:** Rafsa Koyadeen T; Graphene Electrodes - New Functionalities In Molecular Electronic Nanodevices, Dubai; Nanomedicine 2020; November 12, 2020; London, UK.