

عنوان مقاله:

Chirality Effect on Graphene Nanoscrolls Electrical Property

محل انتشار:

اولین کنفرانس ملی مهندسی برق اصفهان (سال: 1391)

تعداد صفحات اصل مقاله: 5

نویسندگان:

M. Afiq Hamzah - Faculty of Electrical Engineering, Universiti Teknologi Malaysia, 81310 Skudai, Johor, Malaysia

S.N Hedayat - Faculty of Electrical Engineering, Universiti Teknologi Malaysia, 81310 Skudai, Johor, Malaysia

M.J Kiani - Faculty of Electrical Engineering, Universiti Teknologi Malaysia, 81310 Skudai, Johor, Malaysia- Dept. of electrical engineering ,islamic azad university,yasooj branch,yasooj

M.T Ahmadi - Faculty of Electrical Engineering, Universiti Teknologi Malaysia, 81310 Skudai, Johor, Malaysia

خلاصه مقاله:

Graphene Nanoscrolls (GNS) as a new material can be used on future nanoelectronic. GNS because of its unique property have been used by many research groups especially on energy storage devices such as batteries and super capacitors. In this paper we will focus on the GNS band energy relation and chirality effect on the property of GNS will be carried out. Based on the presented result different configuration of GNS is simulated which indicates zigzag GNS is a semiconductor type. Based from the simulation the energy band gap can be determined by parabolic approximation though the energy band gap is asymmetric

کلمات کلیدی:

Chirality, Graphene Nanoscrolls, nanoelectronic, parabolic, simulation , zigzag GNS

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/237027>

