

عنوان مقاله:

Influence of Ni Content on Surface Morphology and Variable-Range Hopping Parameters of C/Ni Films

محل انتشار:

اولین همایش بین المللی افق های نوین در علوم پایه و فنی و مهندسی (سال: 1395)

تعداد صفحات اصل مقاله: 4

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خلاصه مقاله:

In this work, the films were grown by radio frequency magnetron co-sputtering on glass substrates at room temperature. The conductivity in the temperature range $T < 50$ K of the films was described in terms of variable-range hopping (VRH) conduction. The film deposited at 3.92 % has minimum values the average hopping distance R_{hop} about 3.43×10^{-6} (cm). It is found that the films deposited at 3.92 % has minimum values the topography about 3 nm

کلمات کلیدی:

(the carbon films, the surface topography, variable-range hopping (VRH)

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