

## عنوان مقاله:

Processing And Properties Of Multiwall Carbon Nanotubes Reinforced Aluminum Matrix Composites

## محل انتشار:

دومین کنفرانس بین المللی آلومینیوم (سال: 1391)

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## خلاصه مقاله:

Novel Al matrix composites reinforced by carbon nanotubes have been processed by powder metallurgy. Different properties of the composite such as hardness, Density and dispersion of the nanotubes in the matrix have been characterized. The results show that PM technique is effective in dispersing the nanotubes within the Al matrix which simultaneously protects the nanotubes from damage under the impact of the milling balls. Finally, increasing in hardness was observed by increasing in wt% CNT up to 1 wt% CNT. Field emission scanning electron microscopy .was used to investigate Microstructure

## کلمات کلیدی:

Al-CNT composites; mechanical properties; reinforcement; Powder metallurgy technique

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/193516>

