

## عنوان مقاله:

incorporation of friction stir processing into surface modification of polymeric materials

## محل انتشار:

کنگره بین المللی جوش و روشهای اتصال (سال: 1388)

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## خلاصه مقاله:

engineering polymers are being increasingly used in a wide number of applications related to tribological properties many chemical and physical methods have been utilized to modify polymer surfaces by depositing thin inorganic films most of these techniques are baed upon the use of high energy sources that ultimately can damage polymer surfaces either chemically or physically incorporation of fillers as reinforcing materials significantly changes various properties of thermoplastics friction stir processing FSP is a tool to modify the surface properties of materials. it has been developed for upper surface modification of metals in recent studies exclusively by making surface composites .however it has never been used for modification of polymers

## کلمات کلیدی:

friction stir processing , polypropylene , composite, nano-sized CaCO<sub>3</sub>

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/163992>

