عنوان مقاله:

Effects of Zr addition on corrosion resistance of CrN films prepared in a magnetron sputtering system

محل انتشار:

ششمین کنگره بین المللی رنگ و پوشش (سال: 1394)

تعداد صفحات اصل مقاله: 2

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خلاصه مقاله:

CrN and CrZrN films were produced by a planar type reactive sputtering system. The potentiodynamic polarization measurements in 0.5 M NaCl solution indicated that CrZrN films show better corrosion resistance than CrN film. Corrosion cu rrent density of CrZrN films was lower than CrN which means better corrosion resistance of CrZrN films. Moreover, co rrosion speed of CrZrN coated steel was lower that uncoated sample which means that Zr has positive effects on corrosion resistance of CrN films.

کلمات کلیدی:

Magnetron sputtering- CrN- CrZrN- Physical vapor deposition- Corrosion resistance

لینک ثابت مقاله در پایگاه سیویلیکا: