In this issue

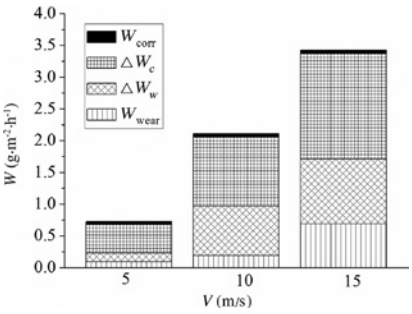
Yaping Bai, Jiandong Xing, Yongchun Guo, Jianping Li, Qian Huang and Yimin Gao

Influence of 4 wt.% Cr addition on the corrosion-wear synergistic effect for Al_2O_3/Fe(Al) composites

DOI 10.1515/corrrev-2015-0073
Corros Rev 2016; 34(4): 231–240

Original article: Cr (4 wt.%) can improve the erosion resistance of Al_2O_3/Fe(Al) composites significantly.

Keywords: 20 wt.% Al_2O_3/Fe(Al) composites; corrosion-wear synergistic effect; Cr element; erosive wear behavior.



Shefali Dahiya, Suman Lata, Parmod Kumar and Rajeev Kumar

A descriptive study for corrosion control of low-alloy steel by *Aloe vera* extract in acidic medium

DOI 10.1515/corrrev-2016-0015
Corros Rev 2016; 34(4): 241–248

Original article: *Aloe vera* was studied as a green inhibitor for controlling corrosion of mild steel in 0.5 M HCl solution by using gravimetric analysis, potentiostatic polarization measurements, electrochemical impedance spectroscopy, and quantum analysis, and it showed appreciable inhibition efficiency of more than 97%.

Keywords: adsorption; *Aloe vera*; corrosion; inhibition.