

Accepted Manuscript

Title: Cerium oxide nanoparticles influences on the binding and corrosion protection characteristics of a melamine-cured polyester resin on mild steel: An experimental, density functional theory and molecular dynamics simulation studies

Authors: Ghasem Bahlakeh, Bahram Ramezanzadeh, Mohammad Ramezanzadeh

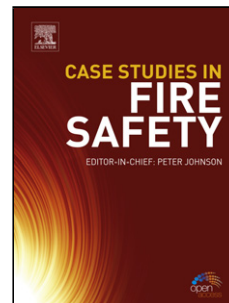
PII: S0010-938X(16)31366-X
DOI: <http://dx.doi.org/doi:10.1016/j.corsci.2017.01.021>
Reference: CS 6986

To appear in:

Received date: 9-12-2016
Revised date: 21-1-2017
Accepted date: 23-1-2017

Please cite this article as: Ghasem Bahlakeh, Bahram Ramezanzadeh, Mohammad Ramezanzadeh, Cerium oxide nanoparticles influences on the binding and corrosion protection characteristics of a melamine-cured polyester resin on mild steel: An experimental, density functional theory and molecular dynamics simulation studies, Corrosion Science <http://dx.doi.org/10.1016/j.corsci.2017.01.021>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Cerium oxide nanoparticles influences on the binding and corrosion protection characteristics of a melamine-cured polyester resin on mild steel: An experimental, density functional theory and molecular dynamics simulation studies

Ghasem Bahlakeh ^{a*1}, Bahram Ramezanzadeh ^{b**}, Mohammad Ramezanzadeh ^b

^a *Department of Engineering and Technology, Golestan University, Aliabad Katool, Iran*

^b *Department of Surface Coatings and Corrosion, Institute for Color Science and Technology, P.O. Box 16765-654, Tehran, Iran*

¹ *To whom correspondence should be addressed:*

*Dr. Ghasem Bahlakeh: Tel.: +981734266235; Fax, +981734266235; e-mail, Gh.Bahlakeh@gu.ac.ir, Ghasem.Bahlakeh@gmail.com

**Dr. Bahram Ramezanzadeh: Tel.: +98 2122969771; fax:+982122947537, e-mail addresses: ramezanzadeh@aut.ac.ir, ramezanzadeh-bh@icrc.ac.ir

Download English Version:

<https://daneshyari.com/en/article/5440175>

Download Persian Version:

<https://daneshyari.com/article/5440175>

[Daneshyari.com](https://daneshyari.com)