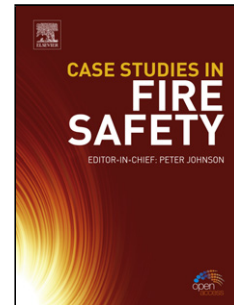


Accepted Manuscript

Title: Active corrosion protection by a smart coating based on a MgAl-layered double hydroxide on a cerium-modified plasma electrolytic oxidation coating on Mg alloy AZ31

Authors: Gen Zhang, Liang Wu, Aitao Tang, Yanlong Ma, Guang-Ling Song, Dajiang Zheng, Bin Jiang, Andrej Atrens, Fusheng Pan



PII: S0010-938X(18)30151-3
DOI: <https://doi.org/10.1016/j.corsci.2018.05.010>
Reference: CS 7522

To appear in:

Received date: 24-1-2018
Revised date: 7-5-2018
Accepted date: 8-5-2018

Please cite this article as: Zhang G, Wu L, Tang A, Ma Y, Song G-Ling, Zheng D, Jiang B, Atrens A, Pan F, Active corrosion protection by a smart coating based on a MgAl-layered double hydroxide on a cerium-modified plasma electrolytic oxidation coating on Mg alloy AZ31, *Corrosion Science* (2018), <https://doi.org/10.1016/j.corsci.2018.05.010>

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.

Active corrosion protection by a smart coating based on a MgAl-layered double hydroxide on a cerium-modified plasma electrolytic oxidation coating on Mg alloy AZ31

Gen Zhang ^a, Liang Wu ^{a,b*}, Aitao Tang ^{a,b**}, Yanlong Ma ^c, Guang-Ling Song ^d,
Dajiang Zheng ^d, Bin Jiang ^{a,b}, Andrej Atrens ^e, Fusheng Pan ^{a,b}

^a College of Materials Science and Engineering, Chongqing University, Chongqing 400044, China.

^b National Engineering Research Center for Magnesium Alloys, Chongqing University, Chongqing 400044, China.

^c College of Materials Science and Engineering, Chongqing University of Technology, Chongqing 400054, China.

^d Center for Marine Materials Corrosion and Protection, State Key Laboratory of Physical Chemistry of Solid Surface, College of Materials, Xiamen University, Xiamen 361005, China.

^e School of Mechanical and Mining Engineering, The University of Queensland, Brisbane Qld 4072, Australia.

* Dr. Liang Wu E-mail address: wuliang@cqu.edu.cn.

** Prof. Aitao Tang E-mail address: tat@cqu.edu.cn.

Download English Version:

<https://daneshyari.com/en/article/7893446>

Download Persian Version:

<https://daneshyari.com/article/7893446>

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