论文

铁表面四苯基卟啉蒸汽沉积膜形成和结构研究

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摘要:

在铁表面进行四苯基卟啉蒸汽沉积处理，获得了具有一定耐蚀性的膜层。采用ＸＰＳ，ＳＥＭ和ＳＴＭ技术对成膜过程及膜的结构成进行了研究，发现在铁表面上进行Ｈ２蒸汽沉积处理形成沉膜时，首先在样品表面形成比较均匀覆盖的基础层。

关键词： 卟啉 缓蚀 XPS

FORMATION AND STRUCTURE OF VAPOR DEPOSITED (TPP)H2 FILM ON IRON

Abstract:

Vapor deposited (TPPIH, film on iron was investigated by means of XPS, SEM, STM and p~tentiod~namic It was found that a well-distributed deposit- measurement. ed film as base layer was formed at initial stage, then growth of the film on the base layer in particle form. The film is composed of a physically adsorbed outer-layer and chemically bonded inner-layer of (TPPIH,. The outer layer can be easily removed by DMF solvent. However, Iron porphyrin could not be found on the treated sample surfaces. A model about the structure and composition of the(TPP>H, deposited film is put forward.

Keywords: porphyrin inhibition XPS

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