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PZT陶瓷表面金属化的研究^① (IV)后处理的实施及其作用^②

施宪法 李学静 刘艳生 郑企雨

(同济大学化学系, 上海200092)

摘要: 利用化学镀方法在PZT陶瓷表面制得的镀镍层, 必须经过后处理才能最后完成PZT陶瓷表面金属化过程, 以制成合用的镍电极。后处理包括电镀镍及低温、高温热处理等步骤。本文报导了这种后处理的实施过程、控制条件及其结果, 并讨论了后处理对于PZT陶瓷表面金属化及对PZT陶瓷元器件的电学性能的影响。

关键字: PZT陶瓷表面 电镀镍 热处理

METALLIZATION OF PZT CERAMIC SURFACE(IV)POST-TREATMENTS AND THEIR EFFECTS ON METALLIZATION

Shi Xianfa, Li Xuejing, Liu Yansheng, Zheng Qiyu

(Chemistry Department, Tongji University, Shanghai 200092)

Abstract: The plated Ni layer on PZT ceramics by electroless plating must be carried out a post-treatment, which involved a Ni-electroplating process and double step heat-treatments at 200°C in air and at 400~460°C in N₂ atmosphere respectively. The experimental procedures of the post-treatment were investigated, and its effects on the metallization of PZT ceramic surface and the properties of the PZT ceramic components were discussed too.

Key words: PZT ceramic surface electroplating heat-treatment

地 址：湖南省长沙市岳麓山中南大学内 邮编： 410083

电 话： 0731-88876765, 88877197, 88830410 传真： 0731-88877197

电子邮箱： f-ysxb@mail.csu.edu.cn