

泡沫镍镀钴提高镍正极性能

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摘要: 研究了泡沫镍基体电镀钴对镍正极的放电容量尤其是大电流放电性能的影响, 结果表明: 泡沫镍基体的镀钴层能改善基板与活性物质间的导电网络, 减小活性物质与基体间的接触电阻, 提高镍正极的大电流放电性能和快充快放性能。

关键词: 泡沫镍基体; 镀钴; 镍正极; 大电流放电

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Cobalt electroplating on nickel foam to improve performance of nickel positive electrode

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Abstract: The effects of electroplating of cobalt on nickel foam substrate on the discharge capacity of nickel positive electrode, especially the discharge at high rate were studied. The results showed that the cobalt electroplating layer on nickel foam substrates could improve the conductive network between active materials and foam nickel substrate, reduce the contact resistance between them and improve the high rate charge-discharge performance of nickel electrode.

Key words: nickel foam substrate; cobalt electroplating; nickel positive electrode; greater current discharge

电池杂志

BATTERY BIMONTHLY