

Heat-treated SAF2507 steel with a secondary phase exhibited excellent electroless Ni plating behaviour, which enhances the safety and durability of Li-ion batteries. Furthermore, uniform plating and electrochemical behaviour were achieved after 180 s, suggesting that SAF2507 is superior to AISI304.

Herein, to promote the progress of nickel-based batteries, we developed an "Inside-out" strategy to develop high-performance and high-area capacity cobalt-free nickel-based cathode by in-situ electroless plating of uniform nickel phosphide on nickel cathode (Ni_2P) for the alkaline zinc-nickel flow battery (Scheme 1).

Keywords: Vanadium redox flow battery (VRB); Carbon felt; electroless plating

1. INTRODUCTION A continuously increasing interest in energy storage for the grid and remote power systems is predominantly prevailing in the world due to multiple causes such as the capital costs of managing peak demands, the grid ...

Ni plating can be executed via two methods: electroless and electro-Ni plating. To achieve a uniform plating layer, Ni plating was conducted after heat treatment at temperatures ranging...

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The interphase which is generated on the surface of Li foil through electroless plating with a solution of aluminum fluoride can guide uniform Li plating/stripping behaviors ...

A Sn-Ni/graphite sheet composite is synthesized by a simple electroless plating method as an anode material for lithium ion batteries (LIBs). The microstructure and electrochemical properties...

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This study confirms that electroless Ni-plated SDSS can achieve a uniform Ni layer, depending on the electroless Ni plating time. The uniform Ni-plated layer on SDSS ...

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Flexible, lightweight and high conductivity substrates are required for the development of next-generation flexible Li-ion batteries (LIBs). In addition, the interfacial strength between the active material and flexible substrate should be optimized for high-performance LIBs. Herein, cotton cloth (CC) is employed as a flexible substrate, and electroless plating is utilized ...

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Nevertheless, nickel-plating SDSS can achieve excellent electrical conductivity, making it suitable for Li-ion battery cases. Therefore, this study analysed the plating behaviour of SDSS plates after nickel plating to leverage their exceptional strength and corrosion resistance.

A Sn-Ni/graphite sheet composite is synthesized by a simple electroless plating method as an anode material for lithium ion batteries (LIBs). The microstructure and electrochemical properties of the composite are characterized by field emission scanning electron microscopy (FE-SEM), transmission electron microscopy (TEM), cyclic voltammetry ...

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