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Patent Search

Invention Title	A HIGH-PERFORMANCE SUPERCAPACITOR DEVICE OF POLYANILINE-TRIETHYL AMINE IONIC LIQUID COMBINED PHOSPHOMOLYBDATE ELECTRODE AND METHOD THEREOF
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Abstract:

Title: A HIGH-PERFORMANCE SUPERCAPACITOR DEVICE OF POLYANILINE-TRIETHYL AMINE IONIC LIQUID COMBINED PHOSPHOMOLYBDATE ELECTRODE AND METHOD THEREOF
 ABSTRACT A Method of preparation of an (TEA- H₄[PVMo₁₁O₄₀]-PANi) active materials used for a (TEA- H₄[PVMo₁₁O₄₀]-PANi) electrode preparation comprising: adding (0.04 mmol) of an aniline to a beaker with a 50 ml of distilled water to obtain a aniline-water mixture; stirring the aniline-water mixture is stirred and adding a 1.0 g of triethylamine hydrogen sulfate ([CH₃CH₂)₃NH] [HSO₄] and 1 g (2.38 mmol) of acidic H₄[PVMo₁₁O₄₀] to the resulting mixture and the solution turns immediately orange color; adding a 1.6 g (0.43 mmol) FeCl₃.6H₂O to the orange-colored solution and stirred to obtain a green-colored precipitate; filtering the green-colored precipitate by vacuum filtration using a membrane filter paper to obtain green precipitate; and washing the green precipitate many times with deionized water to remove excess polyoxometal present in the reaction medium and until the filtrate appears to colorless and to obtain a green color powder of (TEA- H₄[PVMo₁₁O₄₀]-PANi) wherein the obtained (TEA- H₄[PVMo₁₁O₄₀]-PANi) electrode has very high average capacitance of 860.8 Fg⁻¹ and a high energy density of 119.6 Whkg⁻¹ at 1 Ag⁻¹ current density.

Complete Specification

AND
 Patent Rules 2003
 Complete Specification
 (Sec 10 and Rule 13)

Title: A HIGH-PERFORMANCE SUPERCAPACITOR DEVICE OF POLYANILINE-TRIETHYL AMINE IONIC LIQUID COMBINED PHOSPHOMOLYBDATE ELECTRODE AND METHOD THEREOF
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The following specification, particularly describes the invention and manner in which it is to be performed.

[View Application Status](#)



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