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ECS

POSTER PRESENTATIONS

ECS-P-01

Electrochemical performance of Li_{1.2}V₃O₈ in saturated aqueous solution of LiNO₃

<u>Ivana Stojković</u>, Nikola Cvjetićanin, Vladimir Pavlović*, Slavko Mentus *University of Belgrade, Faculty of Physical Chemistry, Studentski Trg 12-16* Belgrade, Serbia

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The $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was synthesized by modified sol-gel method and treated at several temperatures. Electrochemical performance of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ may be galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling in saturated aqueous solution in saturated aqueous solution of $\text{Li}_{1.2}\text{V}_3\text{O}_8$ was investigated by galvanostatic cycling i

ECS-P-02

Oxidation of formic acid on bulk and nanosized Pt-Co alloys

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Bulk Pt_3Co and nanosized Pt_3Co and PtCo alloys supported on XC-72 high area carbon were investigated as the electrocatalysts for the oxidation of formic acid. Cyclic voltammetry in 0.1 M $HClO_4$ and stripping voltammetry of CO_{ads} in the same electrolyte show a small difference in the potentials of Pt-oxide formation and reduction and CO_{ads} oxidation. Based on these results, we concluded that electronic modification of Pt by Pt-oxide on the serious predicted and experimentally proved on solid/gas interface, is exhibited in the electrochemical environment. Promotion of Pt-oxide or eight in the case of PtCo/XC-72 catalyst. This moderate increase of the reaction rate is ascribed mostly to the ensemble effect, because partial leaching of Pt-oxide or increased Pt-oxide ratio at the bimetallic surfaces, diminishing the efficiency of the ensemble effect.