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Highly Conducting Derivatives Of Polyacetylene And Poly-Pyrrole Formed In The Reaction With Selected Protonic Acids And Metal Halides - Synthesis And Application

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HIGHLY CONDUCTING DERIVATIVES OF POLYACETYLENE AND POLY-
PYRROLE FORMED IN THE REACTION WITH SELECTED PROTONIC ACIDS
AND METAL HALIDES - SYNTHESIS AND APPLICATION

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It has been found that polyacetylene can be used in chemical analysis for selective determination of nitrate ion in dilute aqueous solutions. If such solutions are acidified with sulphuric acid the $\log \sigma$ vs. NO_3^- concentration plots are linear over the NO_3^- concentration range 2-40 mM. Several new conducting derivatives of chemically polymerized polypyrrole have been prepared in the reaction with selected metal halides such as: FeCl_3 , SbCl_5 , and others. The products have been characterized by elemental analysis and conductivity measurements.