

PREPARATION AND DESCRIPTION OF POROUS SILVER ELECTRODE DEDICATED FOR DETECTION OF ORGANIC POLLUTANTS

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Detection of presence of organic pollutants in the environment is very important topic. The concentration of pollutants is usually extremely low and due to this detection electrodes should have increased sensitivity. A possible way to do so, is to enhance the contact surface between electrode and analyzed solution. A porous electrode could have better performance (in case of detection limit) than a bulk one.

The aim of this work was to prepare porous silver electrode by spark plasma sintering technique. The microstructure of the material was observed by different microscopy techniques. The results of this study will be used for explanation of the electrochemical studies performed on porous silver electrodes.

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