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Educational device for Electrochemical Impedance Spectroscopy

Wednesday, 5 July 2023 17:00 (20 minutes)

Electrochemical impedance spectroscopy is a method to investigate the properties of materials. The technique consists of sending an electrical stimulus into the material or solution, through two electrodes, and simultaneously measuring the impedance of the substance by varying the frequency. Once the impedance characterization is performed, the data are used to find the equivalent electric circuit of the examined material. In this work, an alternative device to commercial equipment is presented, in order to make it available to students for laboratory activities. The teaching-oriented project does not claim to create more precise and performing instruments available on the market. Still, the project aims to familiarize the student with the field of study.

Apply to be considered for a student ; award (Yes / No)?

N

Level for award;(Hons, MSc, PhD, N/A)?

N/A

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