



ELECTRICAL AND TRANSPORT CHARACTERIZATION IN MEMBRANES AND INTERFACES



INTRODUCTION

The research group Electrical and transport characterization in membranes and interfaces of the Department of Applied Physics I, Faculty of Sciences, specializes in the study, analysis and characterization of membranes. This team has extensive equipment and a highly qualified team with a strong curriculum in teaching and research. The studies can be applied to the fields of hydrology and environment, since these membranes can be used to purify water, desalination systems or to remove contaminants from an aqueous medium.

RESEARCH TOPICS

- Electrokinetics and electrochemical characterization of symmetric membranes and interfaces.
- Implementation of multilayers for:
 - Ultrafiltration.
 - Nanofiltration.
 - Reverse osmosis.
 - Energy conversion systems.
- Influence of hydrodynamic conditions.
- Study of the interface. Electrokinetic potential.

SCIENTIFIC-TECHNICAL SERVICES

- Reports on the detection of alterations in membranes:
 - Agricultural water.
 - Pure water.
- Advice on the type of membrane to use according to the intended application.

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