

Theoretical framework

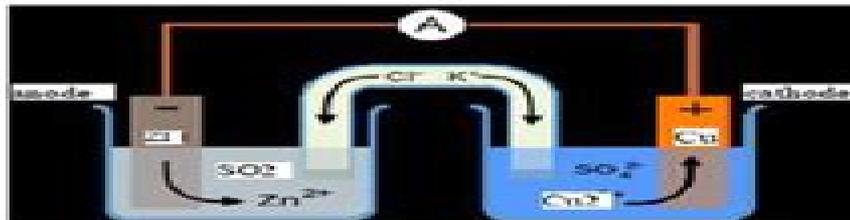
1.1. Electrochemistry

Electrochemistry is responsible for studying the situations where reactions occur, oxidation and reduction being separated, physically or temporarily, in a connected environment to an electrical circuit. (Machado, 2018).

Electrochemistry is a branch of chemistry that studies the transformation between the electrical energy and chemical energy. In other words, chemical reactions that occur at the interface of an electrical conductor (called electrode, which can be a metal or a semiconductor) and an ionic conductor (the electrolyte) being able to be a solution and in some special cases, a solid. (Cortés, 2016).

Electrochemistry is the branch of physical chemistry focused on the laws that govern it, refer to the generation of electricity through combinations of a chemical type. Physical chemistry, meanwhile, is the science that analyzes the links between the chemical properties and the physical properties of a matter. (Beatriz Alvarez, 2015).

Electrochemistry is a branch of chemistry that studies the transformation between the electric energy and chemical energy. In other words, the reactions that occur at the interface of an electrical conductor (called electrode, what can be a metal or a semiconductor) and an ionic conductor (the electrolyte) being able to be a solution and in some special cases, a solid. If a chemical reaction is conducted by an externally applied voltage, reference to electrolysis, on the other hand, if the voltage or electric potential drop, is created as a consequence of the chemical reaction, it is known as an 'electric energy accumulator', also called a battery or galvanic cell. (Mario Alberto, 2004).



Chemical reactions where there is a transfer of electrons between molecules are known as redox reactions and its importance in the electrochemistry is vital, as these types of reactions are carried out processes that generate electricity or, conversely, it is produced as consequence of it. In general, electrochemistry is responsible for studying the situations where reactions occur oxidation/reduction meeting separated, physically or temporarily, are in a connected environment to an electrical circuit. This last one is a subject of study in analytical chemistry, in a sub-discipline known as potential metric analysis. (Micocci, 2018).

Theoretical Electrochemistry

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