

Graphical Abstract

Oxidation Reaction

A reaction in which a compound is broken down through a redox reaction.

Compound



+

Oxidant



=

Oxide



Catalysis

tannic acid



α-amylase



Enzymatic Catalysis

A process through which enzymes catalyze biological processes, such as oxidation reactions.



Electron Mediator

A compound that facilitates electron transfer, improving the efficiency of enzymatic fuel cells, or EFCs.



Energy



Efficiency