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UNIVERSIDAD NACIONAL DEL SUR

CAPABILITY

Wastewater Treatment

TREATMENT OF PHENOLIC AND ANILINE-RELATED COMPOUNDS FROM WASTEWATERS

KEY WORDS

ADVANCED OXIDATION PROCESSES,

INDUSTRIAL WASTEWATER TREATMENT,

CATALYTIC REMEDIATION

DESCRIPTION

Researchers at PLAPIQUI have experience in the treatment of phenolic and aniline related compounds from wastewater, using an Advanced oxidation Process (AOP) without complex or expensive equipment. The process uses inexpensive materials as catalysts and has high activity and selectivity. It is a Multistep Remediation Process using adsorption and oxidation reactions. Other characteristics are:

Ad-hoc catalyst design
Use new materials like nanozymes as catalysts
Use new magnetic materials as supports of magnetic catalysts
Focus in wastewaters from textile, paper and polymer industries
Also applicable to lignin degradation and oxidation

APPLICATIONS

Industrial wastewater treatment
Aniline and phenol removal
Advanced oxidation processes (AOP)
Textile effluent treatment
Pulp and paper wastewater treatment
Polymer industry effluent remediation
Lignin degradation
Catalytic oxidation systems
Adsorption–oxidation treatment
Magnetic catalyst recovery
Low-cost remediation technologies
Selective contaminant degradation
Multi-stage water treatment

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