Degradation mechanisms

01 Photodegradation mechanisms of ethyl propanoate The photodegradation of ethyl propanoate involves various mechanisms, including direct photolysis and indirect photochemical reactions. ...

Early studies relied on basic spectrophotometric methods, which provided limited insights into the degradation mechanisms. The advent of high-performance liquid chromatography (HPLC) and ...

Dissolved organic matter (DOM) in wastewater affects the operation and costs of water treatment processes but its elimination from complex systems is problematic because the mechanisms ...

Various kinetic methods are frequently applied to investigate the thermal degradation behavior of biomass materials. The Coats-Redfern method, a model-fitting approach, is often used to ...

The degradation mechanism of SMX in different oxidation systems was analyzed based on molar absorption coefficients and bond energies. Additionally, the treatment effects on three types of ...

These findings provide crucial insights into the degradation mechanism of PFBS and further validate the significant impact of base type and reaction conditions on the degradation ...

In order to address the degradation mechanisms, we use operando neutron diffraction and scanning transmission electron microscopy to follow the microstructural degeneration of the ...

This review systematically examines ZEN contamination in grains, evaluates the physicochemical properties and toxicological effects of ZEN and its derivatives, and analyzes the ZEN-degrading enzyme families to provide their structural ...

TRIM21 is a highly efficient and versatile E3 ubiquitin ligase that plays a crucial role in targeted protein degradation through its specific binding capabilities. To investigate its role in ...

We explore the degradation mechanisms of photovoltaic modules through a novel combination of indoor and outdoor measurements. We focus on the impact of moisture ingress and ultraviolet ...

Finally, we analyze the degradation mechanisms, metabolic pathways, and byproducts resulting from the degradation process. By examining these factors, this study seeks to provide insights ...

The negligible effect of electron scavenging indicates efficient charge separation and utilization. where hydroxyl radicals typically dominate antibiotic degradation due to their high oxidation ...

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Structurally stable complexes efficiently induce BRD4 degradation, and the binding orientation of BRD4 directly affects ubiquitin transfer and degradation efficiency. Moreover, key residues ...

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