Degradation modeling

The super-resolution model based on diffusion models effectively mitigates the over-smoothing issue during the super-resolution process, while the degradation priors prevent the model from ...

The environmental quality and soil erosion dynamics of the eastern margin of the Tibetan Plateau are vital to regional sustainability, since it is an ecologically sensitive area. In this study, we ...

This configuration aims to leverage the synergistic effects of these materials in photocatalytic degradation. Additionally, the degradation kinetics of the photodegradation experiments have ...

This study develops a machine learning (ML) framework to predict pollutant degradation kinetic constants (k) in persulfate-based advanced oxidation processes (PS-AOP) activated by metal ...

05 Modeling and simulation of composite mechanical behavior Advanced computational models and simulation techniques are employed to predict the mechanical behavior and failure modes of composite materials and structures. ...

Below are concise solutions for your questions related to BJTs and MOSFETs, focusing on their comparison, the importance of device models, and the extraction of mobility degradation ...

Therefore, in this paper, we studied a suitable battery degradation calculation for the vehicle system model based on an equivalent circuit model (ECM) and degradation approximation ...

To address these challenges, we propose an innovative random degradation aggregation network (RDANet) with temporal-spatial attention for satellite video super-resolution. Specifically, we ...

In this work, LTSWI module samples were characterized for material properties and assembly dimensions and subjected to accelerated aging experiments to induce degradation. A finite ...

However, their unidirectional modelling of degradation often struggles to capture the complexity of real-world degradation patterns, leading to structural inconsistencies and pixel misalignments.

The photocatalytic degradation of ciprofloxacin (CIP) using Al-doped catalysts presents a promising approach for the effective removal of this persistent antibiotic from wastewater. This ...

The thermal degradation of peridotite-volcanic conglomerates presents significant challenges in various geological and industrial contexts. One of the primary issues is the complex ...

Degradation modeling

The DESMICE model is an economic approach developed for the spatially explicit financial cost-benefit evaluation of alternative land degradation remediation strategies (Baptista et al. ...

Figure 2: Visualization of our models" degradation disentanglement and transfer ability. Our model can extract homogeneous and inhomogeneous degradation information from the same or ...

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