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Title: Photovoltaic panel waste utilization manuscript

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With the enormous growth in the development and utilization of solar-energy resources, the proliferation of waste solar panels has become problematic.

This review explores the potential of integrating glass waste from PV panels into cementitious materials, focusing on its impact on their mechanical, thermal, and durability properties.

This report is the first-ever projection of PV panel waste volumes to 2050. It highlights that recycling or repurposing solar PV panels at the end of their roughly 30-year lifetime can unlock ...

This review paper addresses the composition and construction of solar panels, present recycling procedures, and the accompanying social, environmental, and economic effects.

This study innovatively explored the sustainable recovery and utilization of raw materials from discarded solar panels, focusing on the transformation of recycled silicon into microporous silica ...

In this research, we present a multiobjective optimization framework for EoL management of photovoltaic panels, combining cost and life-cycle assessment (LCA) driven CO₂ equivalent ...

The recycling of crystalline silicon (c-Si) photovoltaic (PV) panels has various technical and non-technical problems, impeding the creation of high-quality recycled materials required for the ...

This thesis examines the complex material composition of solar PV panels and highlights key substances, both toxic and valuable. It also explores current recycling approaches, including ...

This research paper addresses this by using a novel quantitative modelling framework that employs historical data and Bass diffusion equations to project future PV waste generation in ...

This review has examined the growing challenge of solar PV waste through the lens of uncertainty, highlighting how technological, market, and regulatory drivers shape environmental, ...

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