

How to treat photovoltaic wastewater?

A targeted perspective for photovoltaic wastewater treatment was provided. Three typical photovoltaic wastewater treatment technologies were described. Chemical precipitation is preferred for treating fluorine-rich wastewater. Biological method is the main treatment process of nitrogen-rich wastewater.

What are the different types of photovoltaic wastewater treatment technologies?

Three typical photovoltaic wastewater treatment technologies were described. Chemical precipitation is preferred for treating fluorine-rich wastewater. Biological method is the main treatment process of nitrogen-rich wastewater. The removal method and sequence of pollutants in mixed wastewater need attention.

What are the methods of wastewater treatment using solar energy?

Methods of wastewater treatment using solar energy 4.1. Photocatalysis method Photocatalysis is catalysis technology which is used to speed up light-relevant chemical reactions (Marquez et al., 2020).

Can a photovoltaic industry treat acidic fluorinated wastewater?

There are few studies on the treatment of acidic fluorinated wastewater and the recovery of fluoride resources. However, with the rapid development of the photovoltaic industry, demand for treatment and its research value will increase.

How is PV cell production wastewater treated?

In conclusion, current research on PV cell production wastewater remains in its exploratory stage. For fluorine-rich PV wastewater, the combination of chemical precipitation and coagulation sedimentation processes is still the predominant approach. However, more research efforts are needed in CaF₂ resource recovery.

What technologies are used in wastewater treatment?

Solar photocatalysis, solar desalination, solar disinfection, solar detoxification, solar pasteurisation are the common technologies employed for treating wastewater (Pichel et al., 2018). The involvement of solar radiation in excluding heavy metals and synthetic chemicals from liquid waste is a developing technology.

The photovoltaic industry in China is large, the treatment of fluorine-containing wastewater will generate a lot of by-products, fluorine-containing sludge, of which calcium fluoride accounts for ...

Waste water sources may include process tools, de-ionized (DI) Water regeneration waste and scrubber blowdown. Incorporating the latest innovations in control strategy, such as feed ...

However, in general, solar PV is primarily used in hybrid configurations with anaerobic digestion at WWTPs

Wastewater treatment methods in photovoltaic panel industry

with flow rates greater than $1.89 \cdot 10^4 \text{ m}^3/\text{d}$, where solar ...

The photovoltaic industry is an important industry for the conversion and utilization of solar energy. Although solar energy is a clean energy source, the production line of the crystalline ...

This article provides an overview of the typical waste water treatment methods for crystalline silicon solar cell production. Firstly, a short description is provided of the main process steps of ...

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