**Pin năng lượng mặt trời**

(Cập nhật đến ngày 24/3/2023)

Pin mặt trời là gì? Pin mặt trời hay còn được gọi là pin năng lượng mặt trời, pin quang điện (Solar panel) là những thiết bị có khả năng chuyển đổi quang năng (ánh sáng mặt trời) thành điện năng (dòng điện 1 chiều) cấp cho các thiết bị chuyển đổi hoặc sử dụng điện.

Pin mặt trời thường được ghép bởi nhiều các tấm cell pin nhỏ để tạo thành các tấm pin lớn với nhiều loại công suất khác nhau. Các tấm cell pin này bao gồm nhiều tế bào quang điện – là những phần tử bán dẫn có chứa trên bền mặt một lượng lớn các điốt quang nhạy cảm với anh sáng. Trong 1 hệ thống điện năng lượng mặt trời, đây là thiết bị có thể nói là quan trọng nhất, nó quyết định đến hiệu xuất cũng như khả năng đáp ứng nhu cầu sử dụng điện của phụ tải.

Để hiểu rõ hơn Cục Thông tin KH&CN quốc gia xin giới thiệu một số bài nghiên cứu đã được xuất bản chính thức và các bài viết được chấp nhận đăng trên những cơ sở dữ liệu học thuật chính thống.



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