



Toner cartridges to solar power generation

In this work, a study of the possibility of waste toner cartridges and further recycling and reuse has been performed, with special emphasis on the reuse of the residual toner powder.

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Turning waste into treasure: Utilizing discarded printer toner-modified wood for efficient solar water evaporation in diverse water environments

Herein, waste toner was recycled via high-temperature calcination and acid etching, which yielded two novel photothermal materials, namely HTC-T and HA-T.

In anticipation of companies designing copiers and printers that use more environmentally friendly toners, this paper investigates the environmental impacts of these toners.

Waste toner, especially, could be more attractive for power generation devices due to lack of fusible plastic particles, which otherwise would have caused considerable resistance to ...

The interfacial solar steam generation (ISSG) technology has garnered significant attention as a promising pathway for sustainable and environmentally friendly clean water production.

Scientists in China have fabricated 11.78%-efficient fully printable perovskite solar cells by using an electrode made of waste toner carbon from printer cartridges. The cell achieved an...

Waste toner powder, a byproduct of printing processes, has long posed disposal challenges and environmental concerns. Instead of relegating this material to landfills, researchers ...



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