Toner cartridges to solar power generation

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

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

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

By using a conventional laser paper printer, the effect of the surface treatment on triboelectric open-circuit voltage, short-circuit current and power output density was studied on toner print-patterned ...

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

Through the transformation of hazardous waste toner powder into magnetic multiwalled carbon nanotube composites, the study not only contributes to environmental conservation but also ...

With the growing demand of print and copy in modern society, waste toner carbon from printer cartridges causes serious environmental pollution. Herein, we innovatively attempt to apply it directly to the ...

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 ...

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