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This is a summary of: Liu, W. et al. Flexible solar cells based on foldable silicon wafers with blunted edges. *Nature* 617, 717-723 (2023).. The problem. Crystalline silicon (c-Si) solar cells ...

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TOKYO -- A Chinese startup this month became the first in the world to mass-produce large, bendable perovskite solar panels, based on technology initially developed by researchers in Japan.

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Susrutha B, Giribabu L, Singh SP. Recent advances in flexible perovskite solar cells. *Chem Commun*, 2015, 51: 14696-14707. Article Google Scholar Wang Y, Bai S, Cheng L, et al. High-efficiency flexible solar cells based on organometal halide perovskites. *Adv Mater*, 2016, 28: 4532-4540. Article Google Scholar

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Chinese researchers have developed a special technology to tailor the edges of textured crystalline silicon (c-Si) solar cells, based on which the solar cells can be bent and folded like thin ...

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Lin H, Yang M, Ru X, et al. Silicon heterojunction solar cells with up to 26.81% efficiency achieved by electrically optimized nanocrystalline-silicon hole contact layers. Nat Energy, 2023. Liu W, Liu Y, Yang Z, et al. Flexible solar cells based on foldable silicon wafers with blunted edges. Nature, 2023, 617: 717-723. Article CAS Google Scholar

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Highly efficient silicon solar cells that are as flexible as a sheet of paper could offer a lightweight power source for applications such as uncrewed aerial vehicles while cutting the cost of ...

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