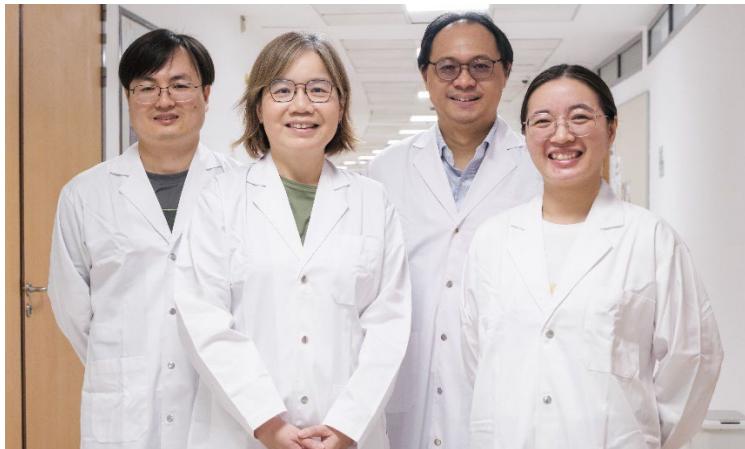


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New Strategy Boosts Perovskite Solar Cell Efficiency



Making perovskite solar cells more stable: (from left) senior research fellow Dr Ye Senyun of NTU's School of Physical and Mathematical Sciences; Prof Lam Yeng Ming of NTU's School of Materials Science and Engineering (MSE); Prof Sum Tze Chien, Director of the Institute of Advanced Studies at NTU and Associate Dean (Research) of NTU's College of Science and research fellow Dr Rao Haixia of NTU's MSE.

NTU scientists have developed a new method to create protective layers in perovskite solar cells using inert materials.

The layers protect the underlying perovskites from degradation and boost the efficiency and stability of perovskite solar cells.

Enabling access to chemically inert materials that previously could not be used due to reactivity and solubility limitations, this strategy opens a new avenue for engineering high performance perovskite devices.

Using the approach, the scientists created a perovskite solar cell prototype that achieved one of the highest reported power conversion efficiencies for perovskite solar cells of this size.

<https://www.miragenews.com/new-strategy-boosts-perovskite-solar-cell-1523898/>