

Showcasing research from Prof. King-Fu Lin's group and Prof. Leeyih Wang's group at the National Taiwan University, Taiwan.

Boosting the ultra-stable unencapsulated perovskite solar cells by using montmorillonite/CH₃NH₃PbI₃ nanocomposite as photoactive layer

Exfoliated montmorillonite (exMMT) nanoplatelets are repelled to the surface of an exMMT/MAPbI₃ film during the crystallization of MAPbI₃, forming an outstandingly dense protection shell that inhibits moisture from penetrating into the perovskite during environmental aging. This innovative method excellently improves the lifetime of unencapsulated inverted photovoltaic solar cells based on organometal halide perovskites.

As featured in:



King-Fu Lin *et al., Energy Environ. Sci.,* 2019, **12**, 1265.



