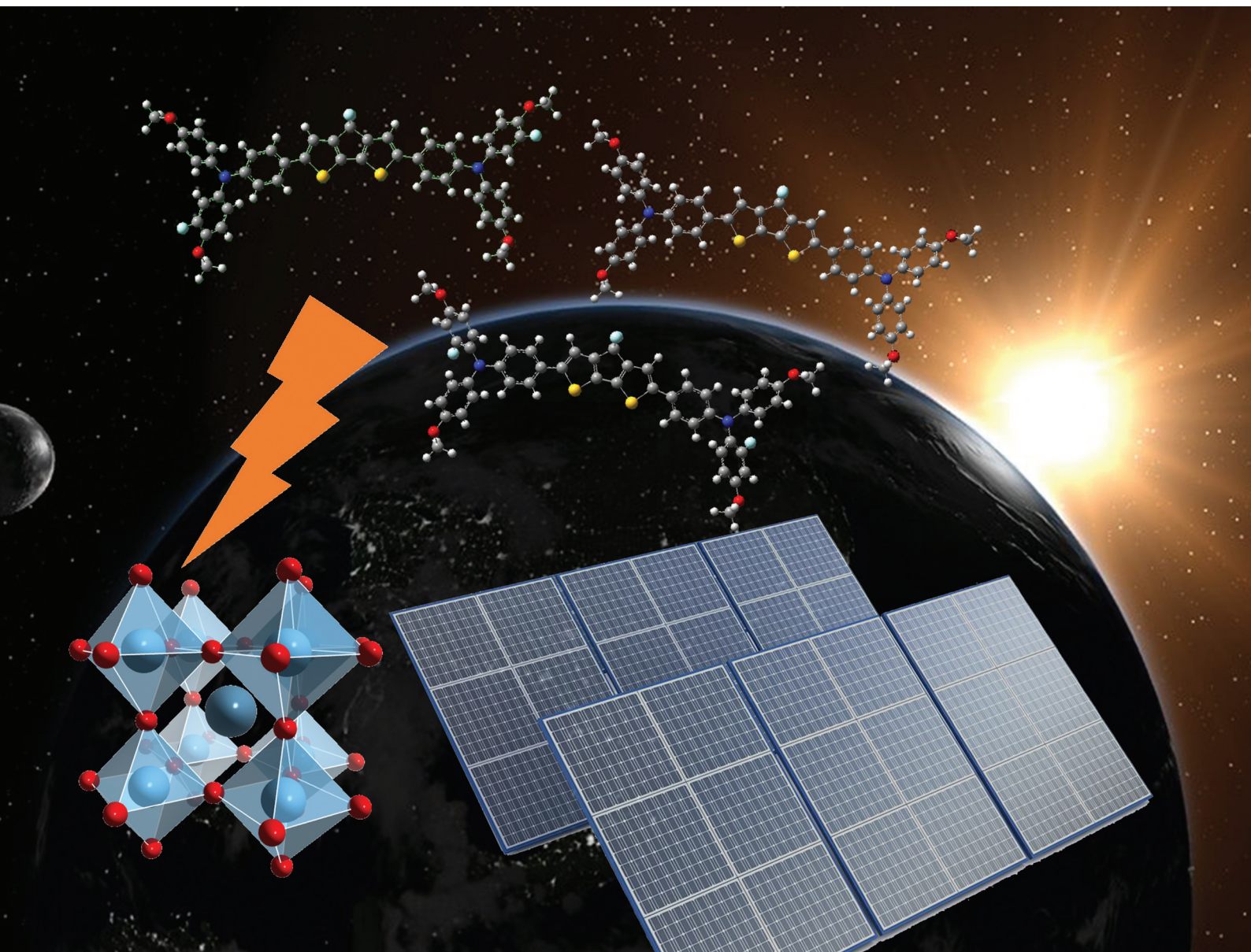


# ChemComm

Chemical Communications

rsc.li/chemcomm



ISSN 1359-7345

**COMMUNICATION**

Kun-Mu Lee, Hsiao-Chi Hsieh, Shih-I Lu, Yan-Duo Lin *et al.*  
Fluorination on cyclopentadithiophene-based hole-transport  
materials for high-performance perovskite solar cells