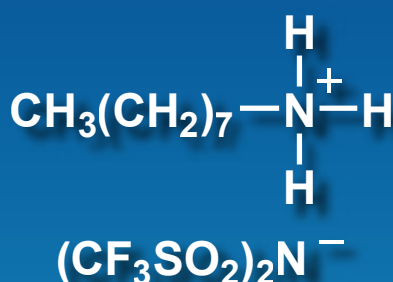


New

MATERIALS



HTM Additive for Perovskite Solar Cells: Achieving Effective Passivation and Doping

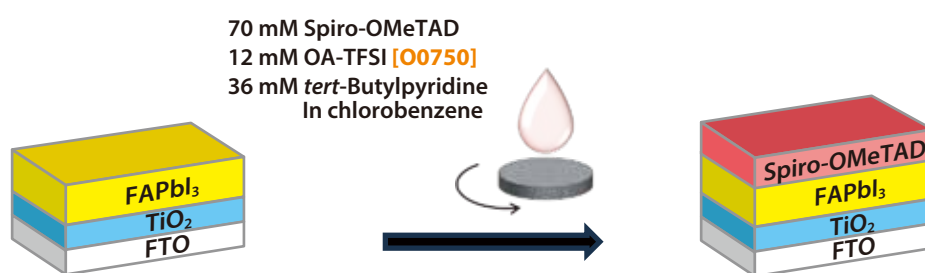


***n*-Octylammonium Bis(trifluoromethanesulfonyl)imide**
 (= OA-TFSI)
 1g / 5g
 [O0750]

Advantages

- When added during the formation of the Spiro-OMeTAD hole transport layer, the TFSI anion acts as a dopant, while the ammonium cation passivates the perovskite layer.
- The use of OA-TFSI improves power conversion efficiency (PCE) and stability compared to the use of LiTFSI as an additive.

Application: Additive for the hole transport layer of the perovskite solar cells



References 1) N. Nishimura, H. Tachibana, R. Katoh, H. Kanda, T. N. Murakami, *ACS Appl. Mater. Interfaces* **2023**, *15*, 44859. <https://doi.org/10.1021/acscami.3c07615>
 2) N. Nishimura, Y. Hinuma, H. Kanda, T. N. Murakami, *J. Mater. Chem. A* **2026**, *14*, 5303. <https://doi.org/10.1039/D5TA08091F>

Related Products

Spiro-OMeTAD

Lithium Bis(trifluoromethanesulfonyl)imide (= LiTFSI)

1g / 5g [T3672]

25g / 250g [B2542]

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