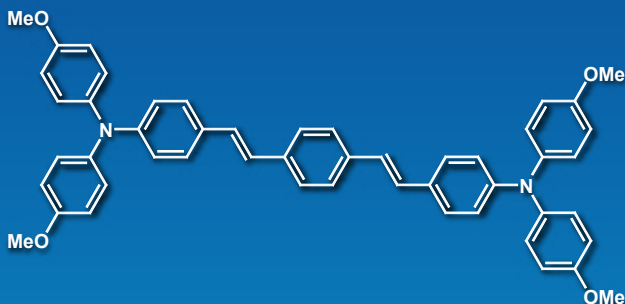


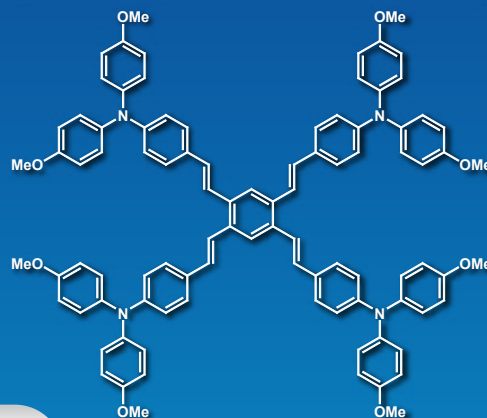
New

Hole Transporting Materials for Stable Perovskite Solar Cells



TOP-HTM- α 1
1g / 5g / 25g
[B5672]

TCI unique,
Practical materials
for Dopant-free PSC



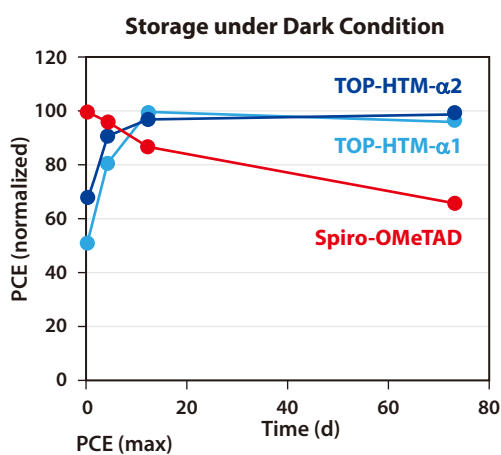
TOP-HTM- α 2
1g / 5g / 25g
[T3722]

Advantages

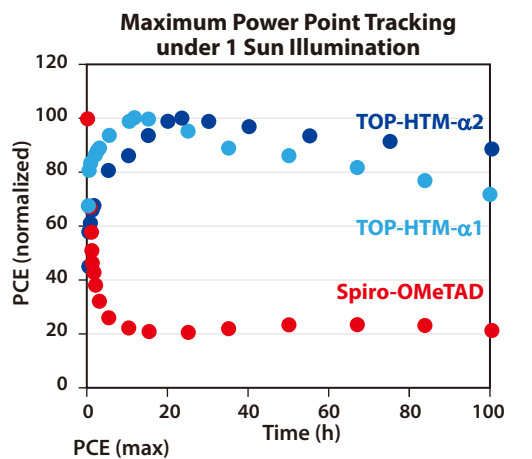
- Realize a highly stable perovskite solar cell with low cost
- Work without dopants nor additives

Applications

Perovskite solar cells based on new HTMs realized superior device stability than that based on doped Spiro-OMeTAD both under dark condition and under 1 sun illumination. (FTO/c-TiO₂/mp-TiO₂/MAPbI₃/HTM/Au)



TOP-HTM- α 1 13.6 % (12 d), TOP-HTM- α 2 14 % (73 d)
Spiro-OMeTAD (doped) 16.3 % (0 d)



TOP-HTM- α 1 11.6 % (12 h), TOP-HTM- α 2 11.3 % (23 h)
Spiro-OMeTAD (doped) 12.5 % (0 h)

H. Nishimura, I. Okada, T. Tanabe, A. Wakamiya, Pending Patent Application PCT/JP2019/030162.

For further information please refer to our website at www.TCIchemicals.com.

solar cell



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Tel : 1800 425 7889 / 044-2262 0909
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Tel : 800-988-0390 / 021-67121386
Fax : 021-6712-1385
E-mail : Sales-CN@TCIchemicals.com

TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel : +81 (0)3-5640-8878
Fax : +81 (0)3-5640-8902
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