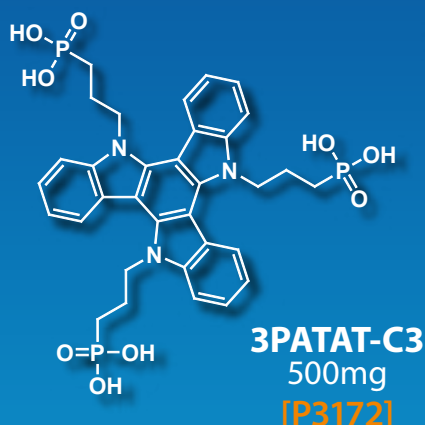


New

MATERIALS



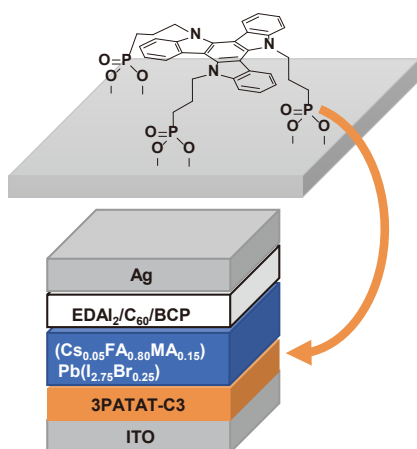
SAM Formation Reagent with Face-on Orientation to Substrate Surface 3PATAT-C3



Advantages

- Strongly binds to the ITO layer via three phosphonic acid groups
- Covers the ITO layer with high coverage
- Efficient charge recovery from the perovskite layer
- Available with high purity / in large quantities

SAM formation via face-on orientation



3PATAT-C3 is a high-performance hole collecting material (HCM) that can be used for inverted perovskite solar cells. 3PATAT-C3 efficiently collects holes from the perovskite layer by forming a SAM layer on face-on orientation to the ITO layer.

HCM	J_{sc} ($\text{mA}\cdot\text{cm}^{-2}$)	V_{oc} (V)	FF	PCE (%)
PTAA	23.0	1.07	0.79	19.4
MeO-2PACz	23.4	1.12	0.80	21.0
3PATAT-C3	24.5	1.13	0.83	23.0

3PATAT-C3 is comparable or superior to MeO-2PACz [D5798], known as a high-performance HCM.¹⁾

Reference 1) M. A. Truong, A. Wakamiya, et al., *J. Am. Chem. Soc.* **2023**, *145*, 7528. <https://doi.org/10.1021/jacs.3c00805>

3PATAT-C3 is commercialized under the instruction of Professor Atsushi Wakamiya of Kyoto University, and under an invention license by EneCoat Technologies Co., Ltd.

Related Products

Lead(II) Iodide (99.99%, trace metals basis) [for Perovskite precursor]	1g / 5g / 25g / 100g / 1kg [L0279]
Lead(II) Bromide (Low water content) [for Perovskite precursor]	1g / 5g / 25g [L0346]
Formamidinium Hydroiodide (99.99%, trace metals basis) [for Perovskite precursor]	1g / 5g / 25g [F1263]
Methylamine Hydrobromide (Low water content)	1g / 5g / 25g [M2589]

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