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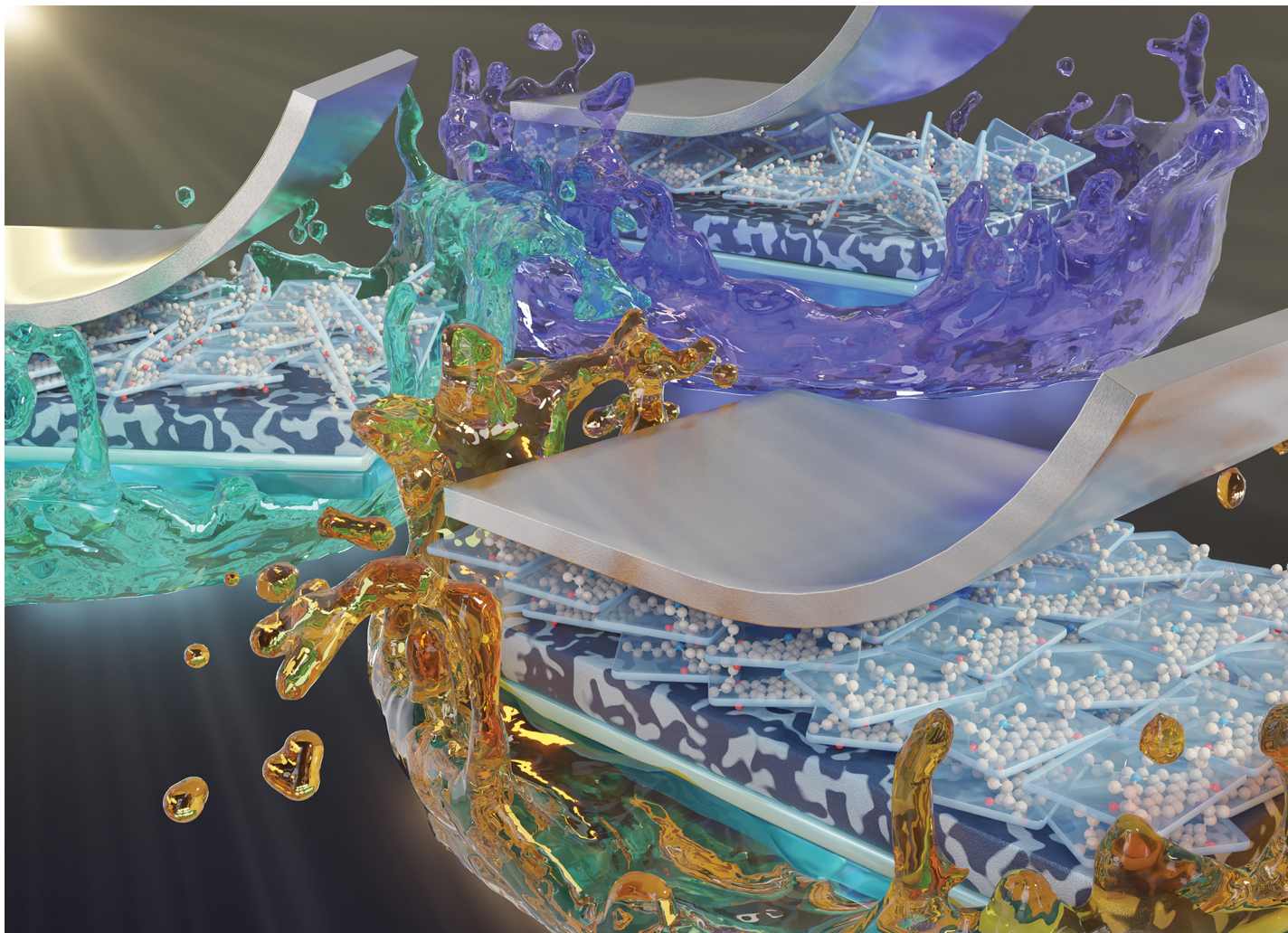
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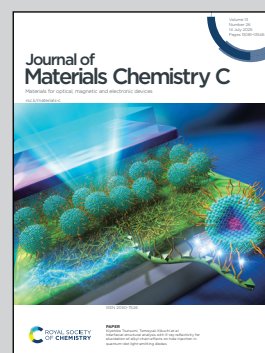
**Showing research conducted by the Doumon Group,
Department of Materials Science and Engineering,
The Pennsylvania State University, United States.**

**Chemical structure and processing solvent of cathode
interlayer materials affect organic solar cells performance**

The team investigates the effect of chemical structure and processing solvents of PDINO and F-PDIN-EH, perylene diimide-based cathode interlayer materials, on the efficiency and long-term stability of organic solar cells. By comparing a new fluorinated material, F-PDIN-EH, in solvents with different polarity to the widely used PDINO, the chemical structure and solvent-dependent degradation mechanisms were highlighted. Their findings provide critical insights into achieving sustainable and stable organic photovoltaics using eco-friendly processing strategies.

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As featured in:



See Nutifafa Y. Doumon *et al.*,
J. Mater. Chem. C, 2025, **13**, 13131.