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(54) Title: PERYLENE SEMICONDUCTORS AND METHODS OF PREPARATION AND USE THEREOF

(57) Abstract: The present teachings provide semiconducting compounds, materials prepared from such compounds, methods of preparing such compounds and semiconductor materials, as well as various compositions, composites, and devices that incorporate the compounds and semiconductor materials. Specifically, compounds of the present teachings can have higher electron-transport efficiency and higher solubility in common solvents compared to related representative compounds.



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