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**Exploring the effects of long carbamate chain on amine-based donor acceptor polymers for sensor and solar application**

Exploring the effects of long carbamate chain on amine-based donor-acceptor polymers for sensor and solar cell application

Abstract: Novel heterocyclic aromatic amide donor-acceptor polymers, hemi-isoindigo and isoindigo were synthesized with the substitution of long carbamate side chains specifically for solar cell and sensor applications.

The effects of the thermo-cleavable carbamate side chain are studied to demonstrate the potential influence on efficiency and performance for solar cell and sensor application respectively.