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Donor polymer for organic solar cells

The power conversion efficiency of organic solar cells (OSCs) has been improved over 18% in the past several years, which can be a promising candidate in the PV market. The active layer is the core part of an organic solar cell, which function as absorbing light and converting solar energy into chemical energy. It usually consists of a polymer as donor and a small molecule material as acceptor. The reasonable design of a donor polymer with proper structure can be essential for OSCs performance.