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Small molecular non-fullerene acceptors based on naphthalenediimide and benzoisoquinoline-dione functionalities for efficient bulk-heterojunction devices

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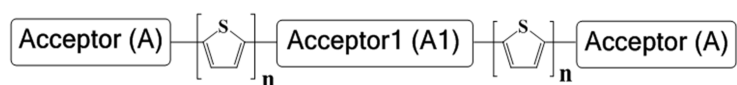
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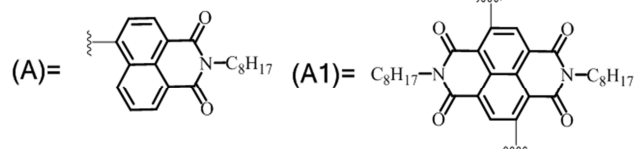
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Graphical Abstract



When:



Targets:

NDI-N1
with n=0

NDI-N2
with n=1

Non-fullerene electron acceptors **NDI-N1** and **NDI-N2**

ITO/PEDOT: PSS (38 nm)/active layer (~60 nm)/Ca (20 nm)/Al (100 nm)
PCE = 4.04% when the active layer is P3HT: **NDI-N2** (1: 1)

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