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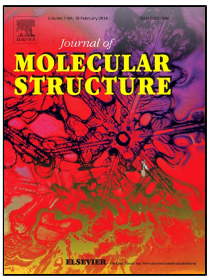

Synthesis of carbazole derived substances using some organoboron compounds by palladium catalyzed and investigation of its semiconductor device characteristics

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Highlights

- 9-(4-(pyren-4-yl)phenyl)-9H-carbazole (Cz-Py) was synthesized by using Ullman and Suzuki coupling reactions of benzene centered novel carbazole derivative.
- ^{1}H NMR, elemental analysis and UV-visible spectra results were confirmed the existence of 9-(4-(pyren-4-yl)phenyl)-9H-carbazole.
- n-Si/p-Cz:py heterojunction diode was fabricated and it exhibits a rectifying behaviour.
- The electrical properties of this diode were characterized by current–voltage (I–V) and capacitance–voltage (C–V) measurements.