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An approach to discovering novel exciplex supramolecular complex based on carbazole-containing 1,8-naphthalimide

Mykola Bezuglyi, Khrystyna Ivaniuk, Dmytro Volyniuk, Juozas V. Gražulevičius, Gintautas Bagdžiūnas



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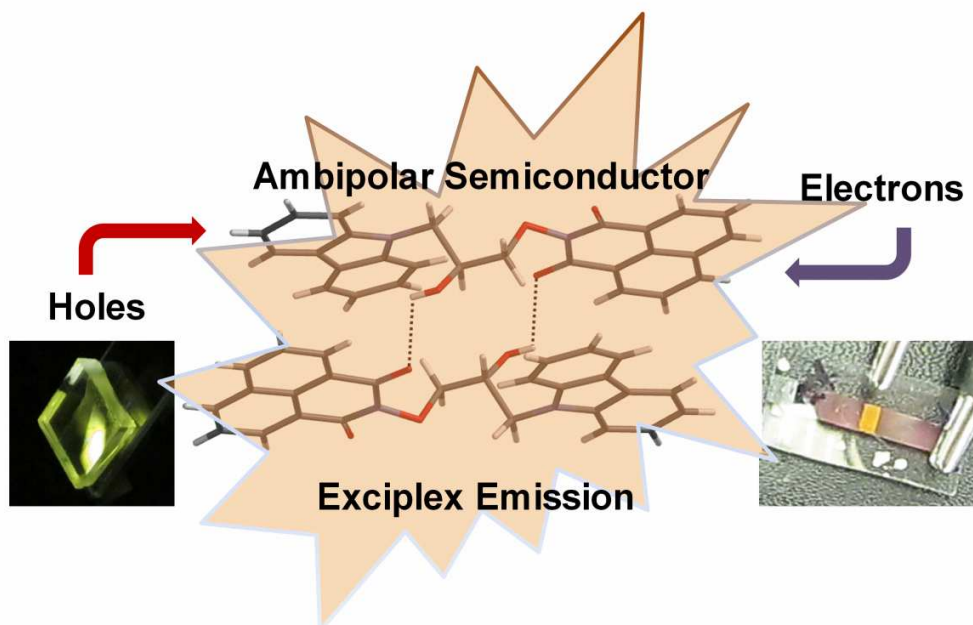
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Graphical abstract**Highlights**

- Semiconductor consisting of the 1,8-naphthalimide and carbazole moieties was synthesized and characterized.
- For this compound, the ambipolar semiconductor properties and recombination of exciton in exciplex complex are indicated.
- The exciplex complex is stabilized by the intermolecular hydrogen bond and electron donor-acceptor interactions.
- OLED from the compound as an emitter exhibited an orange color emission.

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